RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

ALABAMA.—We are advised by William H. Louis ... Pres. of the Flat Creek Mill Co., Mobile, Ala., that contracts will be let at once for building the company's railway from Finchburg, Ala., to Peterman, about 25 miles. Contract for another 15-mile section was awarded to J. C. GROSS, of Finchburg, as noted Oct. 4. Sibley Holmes, of Finchburg, is Engr.

ALABAMA, TENNESSEE & NORTHERN.—This company, which is the successor of the Carrollton Short Line, operating 21 miles of road from Reform, Ala., on the Montgomery division of the Mobile & Ohio, south to Aliceville, has issued bonds to secure funds for extending the road 29 miles south from Aliceville. The work includes a steel bridge over the Tombigbee River at a cost of about $40,000. William Toxey is Ch. Engr. of Carrollton Short Line, at Tuscaloosa, Ala.

ARKANSAS, OKLAHOMA & NORTHWESTERN.—Company has been incorporated in Oklahoma, with offices at Blackburn, Okla.; Fayetteville, Ark., and Caney, Kan. It has $4,000,000 capital stock. It is incorporated to build from Fayetteville northwest through the Cherokee Indian Nation to Caney, 180 miles, with a branch line from Vinita, Ind. T., to Pawnee, Okla., 100 miles. The estimated cost is $25,000 a mile. The incorporators include J. H. Harris and H. F. Campbell, of Fayetteville; W. C. Meekes and George H. Work, of Caney; John A. Orendorff, of Vinita; Z. T. Conley, of Siloam Springs, Ark.; Frank Rush, of Blackburn; Frank Hudson and C. E. Vandervoort, of Pawnee.

AUGUSTA SOUTHERN.—Improvement of the entire line has been recommended by the company's directors. H. B. Spencer, Washington, D. C., is Gen. Mgr.

CANADIAN NORTHERN.—The Canadian Northern has filed plans for a new route for its proposed line between Ottawa and Toronto, Ont. It runs in almost a straight line to Smith's Falls, and from there south of the route which was rejected on April 19. The new route dips down almost to Lake Ontario at Cobourg.

CANADIAN PACIFIC.—Announcement is made that this company will improve the Esquimalt & Nanaimo branch during the coming winter. Improvements to the roadbed will cost $132,000, and in addition large sums will be expended on replacing several wooden bridges with steel structures. R. Marpole, B. C., is Gen. Supt.

CHICAGO, INDIANA & SOUTHERN.—Residents along the line have agreed to donate $100,000 in aid of a branch from Goodrich, Ill., to a point between Lahogue and Piper City, a distance of 22 miles. B. Layton is Engr. M. W., Hammond, Ind.

CHICAGO, ROCK ISLAND & GULF.—We are officially advised that contract for building a branch from Irving to Carrollton, Tex., 10½ miles, has been awarded to LANTRY & SHARP, of Kansas City, Mo., who sublet contract to McCABE & STEEN, of Irving, Tex. J. S. Peter is Ch. Engr., at Fort Worth, Tex.

COVINGTON & SOUTHWESTERN.—This company has been incorporated in Indiana to build a railroad from Covington, Fountain County, southwest through Coal Creek and Kingman to Winkler, a distance of 25 miles, with a branch to Crawfordsville. Grading is practically completed from Covington to Coal Creek, and the company has contracts for 100 cars of Indiana block coal daily as soon as the track can be laid to Coal Creek and the Green Creek mines. Capital stock, $75,000. Incorporators: William G. Ruhl, Carl W. Winkler, Harmon W. Campbell, Marvin L. Cram, August Lueders, Angus J. C. Ledgerwood and Charles H. Ratliff. W. G. Ruhl, of Covington, Ind., is Pres.; C. W. Winkler, Covington, is Secy. and Gen. Mgr., and Harmon M. Campbell is Vice-Pres. and Treas. C. A. Denham is Consult. Engr., with headquarters at 608 Rector Bldg., Chicago.

DEMOPOLIS & LINDEN.—Incorporated in Alabama to build a railroad from Demopolis to Linden, 15 miles. Capital stock, $50,000. Incorporators: F. M. Abbott, of Selma; Henry McDaniel and B. G. Wilson, of Demopolis, Ala.

FALMOUTH RY.—Company has been chartered to build a line 25 miles long from a point in Stafford County, west of Falmouth, via Fredericksburg, to some point on the Rappahannock or the Potomac Rivers. The officers are: W. E. Grant, Pres.; Thos. S. Armistead, Treas., and A. M. Yonge, Secy. and Mgr., who with the following are the incorporators: J. A. Grant, John G. Armistead, W. E. Grant, Jr., and S. H. Yonge. All are residents of Richmond, Va.

GREEN BAY & WESTERN.—The plan for the reorganization of this road under the name of the Green Bay & St. Paul Ry., provides for the extension of the road from Winona to St. Paul, Minn., about 120 miles. The plan of reorganization provides for the purchase of the stock of the company by the holders of the debenture "B" bonds.

MORGANTOWN & KINGWOOD.—It is reported that the BESSEMER CONTRACTING & BALLAST CO., of Pittsburg and McKeesport, Pa., has been awarded the contract for $100,000 worth of work on the new line of the Morgantown & Kingwood Railroad, in the vicinity of Coon Hollow, W. Va. Included in the work is a fill 87 ft. high and 200 ft. in length, and a large concrete arch. The work will be continued through the winter. J. K. Monroe is Ch. Engr., at Kingwood, W. Va.

NEW YORK, NEW HAVEN & HARTFORD.—A contract has been given to LATHROP & SHEA, of Brooklyn, for double-tracking the Highland division between Danbury and Hawleyville, Conn., 5¼ miles. This work is expected to be completed by June 1, 1907. The second track west from Danbury to Hopewell, 34½ miles, has been finished. Several grade crossings on this section between Brewster and Stormville are to be abolished. Contracts for this work have been let to C. W. BLAKESLEE & SON, of New Haven.

NORTHAMPTON & HERTFORD.—Following litigation in the Federal courts of North Carolina for five years, a decree has been issued for the sale of this road, together with a tract of timber land and mill plant, at public auction in Jackson, N. C. The Northampton & Hertford railroad was projected to extend from Pleasant Hill, N. C., to Chowan River, 45 miles. Nine miles have been completed and are in operation between Gumberry and Jackson. The capital stock is $45,000. The properties are owned by the Westcott & Trenchard Lumber Co. Extension of the road is expected to follow the sale and reorganization. W. E. Trenchard is Gen. Mgr., at Gumberry, N. C.

NORTH CAROLINA.—A report from Rutherfordton, N. C., states that the Broad River Lumber Co. has closed a deal for the purchase of the Middleby Lumber Co.'s property, and will build a railroad about 30 miles long to connect with the Seaboard Air Line at Shelby, N. C. The purchasing company is composed of W. L. Clement, of Cheraw, S. C.; D. A. Ritchie, of Richmond, Va., and B. E. Cogbill, of Boydton, Va. George F. Fisher is Mgr., at Rutherfordton.

The Champion Fiber Co. is reported to have decided to build a railroad 17 miles long from Canton to Sunburst, N. C. Peter G. Thompson, of Canton, and others are interested.

SIERRA PACIFIC.—Otto E. Bashore, Pres., 326 Main St., Porterville, Cal., states that this road will be 193 miles long, extending from Globe, Cal., via Porterville, Tulare, Tagus, Hanford, Lemoore, Coalinga, Paso Robels and San Luis Obispo to Port Hartford, Cal. The line has been surveyed from Globe to Tulare, 60 miles, and it is expected to begin construction about Dec. 1. Maximum grades, $^{1}/_{10}$ of one per cent. T. A. Howeth, of Porterville, Cal., is Secy., and S. E. McCabe, of Visalia, Cal., is Ch. Engr. Noted fully on Oct. 11.

ST. MARYS & KINGSLAND.—Incorporated in Georgia to build a railroad from St. Marys into Camden County, ten miles. Capital stock, $50,000. Incorporators: A. Sessons, G. W. Deen, Warren Lott, L. Johnson, H. Murphy, C. M. Sweat, J. M. Bell, W. A. Price, G. R. Youmans, L. A. Wilson, F. L. Sweat, C. W Deen, L. Carter, John Bachlott and R. L. Bunkley.

TEXAS.—C. W. Post, of Battle Creek, Mich., who owns a large body of land in Garza County, contemplates constructing a line of railroad from his land to Sweet Water, Tex.

VIRGINIA & SOUTHWESTERN.—A press report states that the "A. H. JACOBY CO., Keystone Bldg., Pittsburg, has been awarded a contract for the new line for the Virginia & Southwestern R. R. Co., near Clinchport, Va. This work will be awarded in sections. The section that was awarded the Jacoby Co. amounts to about $1,000,000, and includes a large amount of heavy work, also the cutting of two tunnels. Another section is expected to be let soon, which will be one of the most difficult pieces of construction work that has been awarded in that vicinity. It will consist of some very heavy grading, most of which will be through rock and limestone, and in addition includes the construction of eleven tunnels, none of which will be short."

ELECTRIC RAILWAYS.

The names of parties awarded contracts are printed in capital letters.

RENSSELAER, N. Y.—The Board of Aldermen of Rensselaer has granted authority to the United Traction Co., Albany, to extend its Broadway line to the intersection of Forbes and Washington Aves., and the Third St. line to the city line near Bloomingrove, forming a belt line in the northern section of the city. Herschel Benedict is Ch. Engr. of the Traction Co.

OSSINING, N. Y.—The village authorities of Ossining have granted a franchise to the Hudson River & Eastern Traction Co., of which F. A. Stanton is the president, to operate an electric street railway in the village. It is the intention of the company to connect Peekskill and Ossining with White Plains.

BUFFALO, N. Y.—The Buffalo, Dunkirk & Western R. R. Co., with $3,500,000 capital stock, and the Lake Erie Traction Co., with $400,000 capital stock, have been merged under the name, The Buffalo & Lake Erie Traction Co., with $3,900,000 capital stock. Nine directors for the first year are John W. Searing, Rudolph W. Yates, Charles H. Werner, Arthur McCausland, James A. Byrne, Peter C. Schutrum, Marshall J. Dodge, William J. Bagnall and Louis B. Grant, all of New York. Mr. Grant is Pres.; Mr. Schutrum, Vice-Pres.; Mr. Dodge, Treas. and Mr. Werner, Secy. The merger certificate filed in the office of the County Clerk states that holders of stock in either old company can transfer for stock in the new one, share for share. The line of the two companies is part of the proposed trunk electric line from Buffalo to the West.

SOUTH OTSELIC, N. Y.—We are officially advised that the Otselic Valley R. R. Co. will build an electric line from South Otselic to Georgetown, 13 miles. No contracts have been let. W. F. Wenright, Gen. Mgr., is grading and buying material for first four miles. Right-of-way is partly obtained. Survey has been run. B. F. Gladding is Pres., at South Otselic; Farrington & Bowman are Engrs., at Syracuse.

CHRISTIANSBURG, VA.—The Montgomery Traction Co., of Christiansburg, has been chartered to build a line 2¼ miles long from Christiansburg to Cambria, Va. Capital, $10,000 to $25,000. C. A. Johnston is Pres.; E. S. Hagan, Vice-Pres.; M. H. Tompkins, Secy.; C. I. Wade, C W. Surface, A. A. Phlegar, of Christiansburg, and W. L. Hickok of Cambria, are the incorporators.

GRAFTON, W. VA.—The Grafton Electric Railway Co. is having plans and grades prepared by S. M. Faust, Engr., Connellsville, Pa., for building an extension of the line 2½ miles long.

WASHINGTON, N. C.—W. E. Jones, Gen. Mgr. of the Washington Investment Co., states that it is proposed to build an electric railway from Washington about 3½ miles to a mineral spring.

HICKORY, N. C.—Marcellus E. Thornton, Pres. of the Thornton Light & Power Co., is interested in a street and interurban railway scheme which will have about 34 miles of track. See Light and Power Plants.

ATLANTA, GA.—The Atlanta & Carolina Railway Co. has applied to the City Council for a franchise authorizing the use of certain streets in the construction of an electric railroad to connect Conyers, Ga., and West Point, Ga.

HUNTSVILLE, ALA.—The Huntsville & Birmingham Railway Co. has been incorporated for the purpose of constructing and operating an electric railway from Huntsville to Birmingham, through Marshall, Cullman and Blount Counties. The officers of the new company are: C. S. Briggs, Joppa, Ala., Pres.; L. J. Hanners, Cullman, Vice-Pres.; T. W. Riddle, Holly Pond, Secy.; F. T. Petty, Huntsville, Treas. and Gen. Attorney. Mr. Petty states that the line will be over 100 miles long. Company may use either electricity or steam. Right-of-way has been secured, and it is expected to let contracts for construction by Jan. 1.

CORINTH, MISS.—We are officially informed that the Williams Construction Co., of Corinth, is in the market for rails and cars in connection with the Corinth & Shiloh Electric Railway line, which is to be built from Corinth to Shiloh Park, Tenn., 22¼ miles. Abe Rubel is Pres., and J. A. Haines is Ch. Engr. Surveys are made and right-of-way and capital secured.

COLUMBUS, OHIO.—The Toledo, Ottawa Beach & Northern Railway Co., with $1,500,000 capital, has been incorporated here for the purpose of consolidating the Toledo & Point Place Railroad Co. and the Toledo, Ottawa Beach & Southern Railroad Co. Henry A. Everett, of Cleveland, is Pres. of the consolidated company, and William F. Nutt, of Toledo, Secy. and Treas. Edward W. Moore, of Cleveland, and John F. Collins and Louis E. Beilstein, of Toledo, are also directors.

EVANSVILLE, IND.—The Evansville Electric Ry. Co. has asked the Board of Public Works for the privilege of changing its name to the Evansville & Southern Indiana Traction Co.

MANISTEE, MICH.—Surveys are being made locating the proposed line of the Northern Michigan Traction Co., which will extend from Manistee to Cheboygan via Traverse City, Charlevoix and Petosky, with branches extending from Traverse City to Old Mission, and from Petosky to Walloon Lake, East Jordan and Bellaire, connecting with the main line at Elk Rapids. The proposed line will be about 220 miles in length, and will cost about $7,000,000. F. O. Oleson, Gen. Mgr., is authority for the statement that there is ample capital behind the scheme and that the road will surely be built. It is proposed to operate the line by the third-rail system, with overhead trolleys in towns and cities.

DE SOTO, MO.—E. R. Kinsey, Ch. Engr. of the Jefferson Traction Ry. Co., 313 Real Estate Bldg., St. Louis, Mo., informs us that surveys have been made for company's line to extend from De Soto to Victoria, Hematite, Festus, Crystal City and Herculaneum, all in Jefferson County. Right-of-way is secured under option or by franchises already granted. Motive power probably will be electricity, but motor cars are under consideration. William Park is Pres., Boston, Mass. Negotiations for capital are pending. The line is to be 20 miles in length.

NEWKIRK, OKLA.—The Newkirk, Tonkawa & Southern Electric Railway Co., which is now seeking right-of-way through Oklahoma City, has entered into an alliance with the Oklahoma Interurban Traction Co., and a through line to Sulphur, Ind. T., is contemplated.

SALEM, ORE.—The Salem-Mehama Traction Co., it is announced, will not let contracts for equipment until early next spring. The line will run from Salem, via Turner and Stayton, to Mehama, 25 miles. Walters Bros., Salem, are Engrs. A. Welch, of Portland, Ore., is interested.

LOS ANGELES, CAL.—C. W. Leffingwell, Jr., Chn. of the Citizens' Committee of East Whittier, announces that he has secured practically all the right-of-way necessary for the requested extension of the Pacific Electric Ry. Co. from Los Nietos to La Habas. It is expected that eventually the line will continue to Riverside. J. A. Bell is Engr. M. of W., Los Angeles.

RENO, NEV.—F. R. Nicholas, Pres. and Ch. Engr., Reno, Nev., advises us that the RENO CONSTRUCTION CO. has contract for bridge work on the proposed four-mile line to be built by Riverside R. R. Co., from Reno westerly along south bank of Truckee River to Lawton Springs. Grading, track-laying and electrical work is to be done by force account. Capital is obtained, but some additional capital will be required to complete the line. Surveys are made and right-of-way secured.

LIGHT AND POWER PLANTS.

The names of parties awarded contracts are printed in capital letters.

AUBURN, N. Y.—It is reported that the Citizens Light & Power Co. will erect a new power-house here with a capacity of 1,500-HP. C. D. Beebe is Mgr.

BRIDGEHAMPTON, N. Y.—The Babylon Electric Light Co. is contemplating the installation of an all-day service. The capital will be increased from $15,000 to $75,000. A modern fireproof building will be erected to accommodate the new plant.

NEW YORK, N. Y.—The New York Edison Co. will erect a 5-story fireproof power-house adjacent to the new Manhattan Eye & Ear Hospital on 64th St., near Third Ave. Plans are being prepared by the company's architect.

PORT HENRY, N. Y.—The Port Henry Light, Heat and Power Co. have applied to issue stock in the amount of $100,000 for the purpose of manufacturing and using electricity for light and power in the villages of Port Henry, Westport, Elizabethtown, Crown Point and Ticonderoga, and the towns of Moriah, Westport, Elizabethtown, Crown Point, Ticonderoga, North Hudson and Schroon. Hearings on the application will be held soon by the State Gas & Electric Light Commission.

HARRISBURG, PA.—It is reported that Frank M. Warring, of Tyrone, has purchased for a New York syndicate, the Iroquois Clubhouse in Perry County. This is the first step of a scheme to buy extensively between the clubhouse and Newport, the object being to erect a $1,000,000 power plant and sanitorium.

PITTSBURG, PA.—THOMAS REILLY received the contract for the building of the new power-house for St. Francis Hospital, to cost $125,000.

WASHINGTON, D. C.—Bids were opened Oct. 30, at the Bureau of Supplies and Accounts, Navy Department, Washington, for 47 transformers, ranging from 5-KW. to 100-KW. Bids were as follows: General Electric Co., Schenectady, $11,076; National Electric Supply Co., Washington, $16,180; Wagner Electric Mfg. Co., St. Louis, $11,376; Westinghouse Electric Co., New York, $11,547; Western Electric Co., $10,551.

Bids are asked at the Bureau of Supplies and Accounts, Washington, D. C., until Nov. 20, to furnish electrical supplies to various navy yards. H. T. B. Harris, Paymaster Gen. U. S. N.

FISSELL & WAGNER, Home Life Bldg., have been awarded the contract by the Potomac Electric Power Co. to install rotary and static transformers in its new building at a cost of $25,000. H. W. Fuller is Gen. Mgr.

SANFORD, N. C.—It is reported that H. I. Thompson will rebuild his electric light plant here, which was recently burned. W. H. Thomson is Mgr.

HIGH POINT, N. C.—The city is considering the installation of an electric light plant, and a committee has been appointed to estimate the cost of proposed plant.

CONCORD, N. C.—The SOUTHERN POWER CO., of Charlotte, N. C., has contract to furnish 5,000 HP. to drive the Cabarrus, Cannon, Franklin, Gibson and Patterson cotton mills operating 68,436 spindles and 2,219 looms at Concord, and the Cannon and Patterson mills now building at Kannapolis, N. C., to have 50,000 spindles and 1,500 looms, it is reported. This is a total of 118,436 spindles and 3,719 looms. The Southern Power Co. also has contract to furnish 1,800 HP. to the J. M. Odell Mfg. Co., J. M. Odell, Pres., and the Magnolia Mills, J. M. Odell, Owner, operating 47,000 spindles and 1,793 looms at Concord. It is reported this will necessitate extending the Southern transmission lines from the present terminus to Concord, about 17 miles distant, at a cost of about $10,000 a mile. W. S. Lee, Jr., is Ch. Engr.

HICKORY, N. C.—It is reported that B. F. Groff of Lancaster, Pa.; Wallace Wilson of Tyrone, Pa., and other Pennsylvania capitalists have arranged to take over the Thornton Light & Power Co. (operating a steam power electric plant) and lands and shoals on the Catawba River owned by Marcellus E. Thornton, Pres. of the Thornton Light & Power Co., also the Horseford shoals. These properties are to be utilized to provide a modern water power electrical plant for transmitting electricity to Hickory, Lenoir, Granite Falls and other cities. Plans will be made to build the power-house on dam in center of river with a duplicate set of water-wheels and electrical appartus, each equipment above the other. About 12,500 HP. will be obtained, the initial development to be 8,000 HP. Plans and specifications for dam, power-house and other facilities will probably be prepared soon. It is reported that $1,000,000 will be the cost of developments now contemplated to be completed within a year. The Water-Power Electric Co. of Hickory, N. C., is the title of the corporation undertaking this work.

SENECA, S. C.—The city will engage an engineer to make surveys and estimates of the cost of constructing the proposed electric light plant here.

UNION, S. C.—The city has awarded the contract to STANLEY-G. I. ELECTRIC MFG. CO. for equipment for the municipal electric lighting plant. The plant will cost about $11,000.

CORNELIA, GA.—The city has voted an issue of bonds for the construction of an electric light plant.

COLUMBUS, GA.—The Eagle & Phoenix Mills are installing an auxiliary electric power plant at an estimated cost of $15,000.

TAMPA, FLA.—J. E. BATES & CO. have been awarded contract to erect a power-house for the Tampa & Sulphur Springs Traction Co. It is to be 104 x 104 ft., of sand-lime brick, and to cost $15,000. McGUCKEN BROS. have been awarded the contract for the brick work.

WIGGINS, MISS.—F. D. Smith, Indianapolis, Ind., contemplates the erection of an ice, electric and power plant in this city.

FRANKLIN, LA.—The town is considering the erection of an electric light system here. John C. Lewis is Mayor.

NAPOLEONVILLE, LA.—HENRY WIDMER, of New Orleans, has been awarded the contract, at $7,264, to erect the electric light plant here for the city. H. B. Barringer, of Cinclare, is Consult. Engr.

NASHVILLE, TENN.—The National Power Co. has been incorporated by J. E. Caldwell, D. C. Buntin, V. E. Schwab, F. O. Watts and S. H. Ellison, to transmit power from certain waterfalls in the Cumberland Mountains.

MURRAY, KY.—It is reported that the city will issue bonds for building a water-works and electric light plant here.

NEW CASTLE, IND. — The ALLIS-CHALMERS CO., of Milwaukee, which has a contract for construction of the Indiana Northern Traction Co.'s line, is asking for bids on sub-contract for the construction of the power-house in this city. H. A. Nichols is Gen. Mgr.

RUSHVILLE, IND.—Bids were received Oct. 16, by S. G. Gregg, City Clk., for various apparatus for the municipal water-works and light plant, and the contract was awarded to the FT. WAYNE ELECTRIC WORKS, for $10,250. O. Ong, of Rushville, is Design. Engr.

SAULT ST. MARIE, MICH.—The contract is soon to be awarded for improving the power plant in the Michigan "Soo." The estimated cost of the improvements is $1,000,000. Charles D. Warren is Pres. of the Lake Superior Corporation.

SAULT STE. MARIE, MICH.—Bids are asked until 1 p. m., Dec. 17, at office of L. H. Davis, Ch. Engr. of The Michigan-Lake Superior Power Co., Sault Ste. Marie, Ont., for constructing the reinforcement of the company's power-house at Sault Ste. Marie, Mich. (Advertised, Engineering News.)

CHAMPAIGN, ILL.—The McKinley Syndicate has awarded the general contract for rebuilding its gas plant to A. W. STOOLMAN. Mr. Stoolman has awarded to WALSH & HAWLEY the contract for the cement foundation. The company will spend about $10,000 in making the proposed improvements, which will make this plant one of the best in the State.

CHANNAHON, ILL.—Plans have been prepared by D. W. Mead, 164 Dearborn St., Chicago, for the heat, light and power plant which is to be erected by the Channahon Power Co. of Chicago. Estimated cost, $100,000.

MILWAUKEE, WIS.—The city has purchased, at a cost of $60,000, a site on which to erect its proposed $1,000,000 light plant. The site is at the foot of Walker St. on the Milwaukee River.

WASHBURN, WIS.—The citizens will vote on buying the water-power at Sioux River and erecting a $60,000 lighting plant there.

MINNEAPOLIS, MINN.—Bids are asked by the City Council until Nov. 22, for lighting the streets during 1907.

BROWNSVILLE, TEX.—It is reported that Owen Ford, Security Bldg., St. Louis, Mo., is organizing a company with $100,000 capital stock to establish water-works and electric light plant.

PALESTINE, TEX.—The Palestine Electric Light Co. will make extensive improvements including the erection of a power-house and two 250-HP. boilers. C. M. Parkhill is Ch. Engr.

WEATHERFORD, TEX.—The contract has been let for the erection of a gas plant here. The building is to be one story high, 25 x 60 ft.

GREELEY, COL.—Taxpayers have voted by a large majority in favor of granting the Greeley Gas & Electric Co. a franchise. The company will now issue bonds, enlarge its plant and build a new power-house. About $40,000 will be expended.

ABERDEEN, WASH.—The GRAYS HARBOR ELECTRIC LIGHT CO. has been awarded the contract to furnish the city with light for a period of ten years.

SANTA ANA, CAL.—The contract for excavating for the power-house to be erected by the Pacific Co. has been awarded to CHARLES WARD. R. M. McCABE has been awarded the contract to erect the building, which will be of brick.

PASADENA, CAL.—The contract between the City of Pasadena and the EDISON ELECTRIC CO. under which the corporation is to furnish electricity for the street lamps until the completion of the municipal lighting plant, has been signed by all parties.

KINGSMAN, ARIZ.—Contracts have been closed between the Desert Power & Water Co. and the Gold Road Mining & Exploration Co. for an electric power plant having a capacity of 2,200-HP., to be erected here. Work will begin on the plant in about 30 days. Oil will be used for fuel.

BOISE, IDAHO.—The western Power Co., of Boise, Idaho, which is controlled by Western capitalists, has retained Arthur Giesler, 29 Broadway, New York, N. Y., to take charge of supervision and engineering work in connection with its new 20,000-HP. hydro-electric plant, to be erected on Payette River, near Oxbow, Idaho. The power will be developed by four units of 4,000 HP. capacity each, operating under a 150-ft. head. The power, most of which has been contracted for, will be used in mining, street railway work and for lighting and miscellaneous work in various towns in the vicinity. Surveys are at present being made, and it is estimated that the development will involve an expenditure of $1,500,000.

OGDEN, UTAH.—The Ogden Gas, Light & Fuel Co. has been incorporated with a capital of $500,000. The business pursuit of the company will be to conduct and maintain the manufacturing and supplying of gas, electricity and steam, to municipalities, corporations and individuals for light, heat and power purposes, also to manufacture coal, coke, tar ammonia in Ogden and elsewhere. The officers elected are A. T. Wright, Pres.; R. E. Hoag, Vice-Pres.; F. B. Stevens, Secy. and Treas., and they, with J. F. Grant, Jr., and R. T. Harris form the Board of Directors.

RICHFIELD, UTAH.—The Richfield Electric Light & Power Co. has been incorporated with a capital of $50,000 by Thomas Brown, Pres., William H. Seegmiller, Vice-Pres. and Gen. Mgr. James M. Peterson, Treas., John Hood, Secy. The company is formed for the purpose of operating an electric light and power plant in this city.

SALT LAKE CITY, UTAH.—The Salt Lake City Public Service Co. has been organized by capitalists from Columbus and Cincinnati, Ohio, and this city, for the purpose of supplying light, heat and power for Salt Lake City. The capital of the company is $3,000,000. James J. Chambers, of Salt Lake City, is Pres.

BEATTY, NEV.—The New York Electric Power & Reduction Co., of New York, has purchased important water rights from A. L. Lidwell, 20 miles north of here, for $50,000. The company will build a large mill and reduction works to treat Bullfrog, Goldfield and Tonopah ores. It will also build an electric power plant and brewery. The Bullfrog & Goldfield Railroad probably will be constructed to the site and bring machinery by Dec. 10. The interested parties are: Moses Newton, Pres. of the Wilmington & Hoosac Tunnel Railroad, and head of the paper trust; Thomas L. Rankin, ex-United States Senator from Kansas; F. F. Roos of Denver, Pres. of the Fraternal Union of America; J. Scott and C. X. Newcomer of Denver.

BRIDGES.

The names of parties awarded contracts are printed in capital letters.

LACONIA, N. H.—This City is considering the question of replacing the wooden trestle bridge across Winnipiseogee River at Elm St. with either a steel or reinforced concrete structure having a span 332 ft. long and about 33 ft. wide. Charles A. French is City Engr.

BRIDGEPORT, CONN.—Maj. W. W. Starr, City Engr., has been instructed by the Council to prepare plans and specifications for retaining walls for approaches to East Washington Ave. bridge.

NEW YORK, N. Y.—The Department of Water Supply, Gas and Electricity has had plans and specifications prepared and forwarded to John H. O'Brien, Comr., for approval for the largest system of water extension ever undertaken in Queens Borough. The plans call for 14¼ miles of mains to be laid in 49 streets and include 2,170 tons of pipe and 190 hydrants, the estimated cost of which is about $130,000. It is hoped to have the entire work completed next year.

ALBANY, N. Y.—The State Railroad Commission on Oct. 31 made its decision as to the manner in which highways shall be crossed by the Greenwich & Johnsonville Ry. in the extension of its line. The line is to be extended from Greenwich, through the villages of Easton and Jackson, to Salem, a distance of 15 miles. Steel structures to carry line over the streets and roads must be erected at following points: Main St., Mill Hollow and Eddy Sts., Greenwich; at Easton-Center Falls highway, Easton; and at Jackson-Center Falls highway and East Greenwich highway, Jackson. At the Cambridge-Salem highway crossing in Salem, the highway must be carried over the railway on a steel structure to be built by the company. At other points, crossings may be made at grade. C. B. Vorce is Ch. Engr. Ry. Co.

COHOES, N. Y.—The DEAN STEAM PUMP CO. has been awarded contract for 4,000,000-gallon triplex water pump with 175 HP. and 185 ft. head pressure, at $4,260. A. T. Kniffin is Supt.

ATLANTIC CITY, N. J.—The Atlantic City & Coast Ry. Co. has made application to the U. S. Engineer at Wilmington, Del., for permission to construct a bridge two miles long, over Great Egg Harbor, connecting Somers Point with Atlantic City.

BELLEFONTE, PA. — THE OWEGO BRIDGE CO., of Owego, N. Y., is reported to have secured the contract for constructing a bridge over Beach Creek at Hubbard, at $6,485.

WEBSTER, PA.—The Commissioners of Washington and Westmoreland Counties are stated to have approved plans for a joint county bridge over Monongahela River, between Donora and Webster. The main span of bridge to be 1,300 ft. long.

CHARLESTON, W. VA.—The Kanawha Valley Traction Co. is arranging to build a bridge over the Kanawha River, about two miles below this city. It is proposed to construct a foot, street car and railroad bridge. E. W. Alexander is Gen. Mgr.

PARKERSBURG, W. VA.—A bridge will be built over the Little Kanawha River by J. N. Camden, C. N. Shattuck and others.

GAINESVILLE, GA.—Bids are asked until Nov. 24 by the Commissioner of Roads and Revenues for constructing bridges over the Chattahoochee River on Athens and Dahlonega road and at the Browning's Ferry crossing. D. H. Jarrett is Comr.

DE FUNIAK SPRINGS, FLA.—Bids are asked until Dec. 3, by the Clerk of the Board of County Commissioners for constructing a steel bridge over Big Swamp Creek on the Laurel Hill and De Funiak Springs road. W. L. Cawthon is Chn. of Bd. of Comrs.; James A. McLean is Clk.

BROOKWOOD, ALA.—The Southern Ry. Co. will construct a concrete arch bridge for the County at Brookwood. Col. Clifford Anderson is County Comr. D. W. Lum is Ch. Engr. Southern Ry. Co., Washington, D. C.

CHATTANOOGA, TENN. — The WEST CONSTRUCTION CO. submitted the lowest bid, at $4,250, for constructing the Pea Vine Creek bridge in Chickamauga Park. E. E. Betts is Ch. Engr. Chickamauga Park Comn.

CARTHAGE, TENN.—Bids are asked until noon, Dec. 15, by the Carthage & Granville Bridge Co. for constructing a 600-ft. steel highway bridge across Caney Fork River, about three miles from Carthage. W. E. Myer is Agent. (Advertised, Engineering News.)

AKRON, OHIO.—It is stated that the Baltimore & Ohio R. R. Co. (D. D. Carothers, Ch. Engr.) and the Pennsylvania Ry. Co. contemplate constructing a high level bridge over the valley of the Little Cuyahoga River in Akron. Probable cost of proposed structure, $200,000.

CHARLESTON, ILL.—Contract for new bridge over Okaw River, to cost about $4,600, has been let to the ATTICA BRIDGE CO., Attica, Ind. The foundation work will be done by P. J. GOGGIN, Arcola, Ill.

GREEN BAY, WIS.—Plans are being prepared for a bridge across the Fox River at Walnut St.

DULUTH, MINN.—The contract for replacing the wrecked center span of the Interstate bridge, at Duluth, is reported to have been awarded to the REID WRECKING CO. of Sarnia, Ont., at $60,000.

KANSAS CITY, KAN.—Bids are asked by Frank M. Holcomb, County Clk., until Nov. 19, for the construction of a steel stringer bridge.

INDEPENDENCE, MO.—Bids are asked until 10 a. m., Nov. 14, by the Clerk of Jackson County, for constructing various bridges throughout the County.

Bids are asked until 11 a. m., Nov. 19, by the County Clerk, for constructing bridges in this County. Oscar Koehler is Road and Bridge Comr.

KANSAS CITY, MO.—We are officially advised that on Oct. 31, the PARKER-WASHINGTON CO., 2309 Penn St., Kansas City, secured contract to construct bridges, noted Oct. 18, for the County. J. L. Phelps is County Clk.; Oscar Koehler is Road and Bridge Comr.

HOUSTON, TEX.—Bids are asked until Nov. 14 by John B. Ashe, County Audr., for a bridge across Big Cypress Creek, on West Montgomery road.

TAYLOR, TEX.—It is reported that the Missouri, Kansas & Texas Railway System has made an appropriation of $500,000 for rebuilding bridges between Taylor and Smithville, Tex. Work on the construction of bridge across the Brazos River at Waco has begun. F. W. Bailey, Denison, Tex., is Supt. of Bridges and Bldgs.

LAWTON, OKLA.—The Midland Bridge Co., 662 Gibraltar Bldg., Kansas City, Mo., has contract at $3,720, for constructing County bridges.

PORTAGE, WASH.—It is stated that the Chicago, Milwaukee & St. Paul Ry. Co. proposes constructing a $20,000 steel viaduct over the Portage yard. The structure will be 24 ft. wide. D. J. Whittemore, Chicago, Ill., Ch. Engr.

LEAVENWORTH, WASH.—Bids are asked until 2 p. m., Nov. 12, by the Commissioners of Cholan County for constructing wagon bridge across the Wanachee River at Leavenworth. John A. Gellatly is County Audr.

NAPA, CAL.—Bids are asked until 10 a. m., Nov. 14, by the Supervisors, for constructing a bridge over Soda Springs Creek. N. V. Collins is Clk.

HAWKSHAW, N. B.—WHITMAN BREMER, of St. Mary's, N. B., has contract for constructing bridge at $31,000, for Hawkshaw.

LETHBRIDGE, ALTA.—The Canadian Pacific Ry. Co. has let the contract for the erection of its bridge here to the DOMINION BRIDGE CO., Montreal, Que. Price, $780,000.

BUILDINGS.

The names of parties awarded contracts are printed in capital letters.

SALEM, MASS.—Plans are being prepared by Andrews, Jacques & Rantoul, Archs., 1025 State Mutual Bldg., Boston, for the erection of a $300,000 high-school building. Thomas G. Pinnock is Chn. of High-School Commission.

NEWPORT, R. I.—Bids were opened Nov. 6, at the Bureau of Supplies and Accounts, Navy Dept., Washington, D. C., for repairing and renewing outside walls of Barracks "B," Naval Training Station, Newport, R. I. The bids were: Darling & Slade, Fall River, Mass., $17,200 and $13,900; M. A. McCormack, Norfolk, $13,564 and $12,064.

NEW HAVEN, CONN.—On Oct. 29 Mrs. Mary E. Ives announced to the City Library Directors that she would give New Haven $300,000 for a new library building. The board accepted the offer and pledged the city to buy a site. The city will begin the construction of the library in a year.

STAMFORD, CONN.—Tentative plans have been drawn by Wm. Dewsnap, Arch., 150 Nassau St., New York, for a 3-story brick Y. M. C. A. building, to be erected here at a cost of $100,000.

ALBANY, N. Y.—The Oaks Hotel Co., Albany, has purchased property on the shores of Thompson's Lake, in the Helderberg Mountains, Albany County, and will construct a modern 100-room hotel, which will be ready for the season of 1907.

The plans of Fuller & Pitcher, Archs., Albany, for the construction of buildings on the cottage plan for the Albany Orphan Asylum have been adopted. It is estimated the administration building will cost about $41,000, the cottages about $16,000 each, and the officers' residence $16,000. David A. Thompson, Albany, is Pres. of the Asylum.

NEW YORK, N. Y.—Leslie McHarg & Co., 299 Broadway, were the lowest bidders for the new balconies on pavilions A and B of the new Bellevue Hospital, First Ave. and 26th St. Their bid was $24,300.

The following bids were received Oct. 29 for construction of addition to Public School No. 129, on Gates Ave., near Stuyvesant Ave., Boro. of Brooklyn: Geo. F. [illegible]coll, 391 Fulton St., Brooklyn, $187,99[illegible]; [illegible]arke & Stowe, 44 Court St., Brooklyn, $1[illegible]; Geo. Hildebrand, 38 Park Row, New York, $159,244; C. H. Peckworth, 415 Hudson St., $182,713; Church Construction Co., 23[illegible] and Broadway, New York, $193,000; [illegible] Cockerill & Son, Columbus Ave. and [illegible] St., New York, $174,500; R. E. Hen[illegible], 4 Court Sq., Brooklyn, $169,882. [illegible]eration to building and improvements [illegible] the Morris High-School, 166th St., betw[illegible]ston Road and Jackson Ave., Boro. [illegible]nx, Chas. Meads & Co., 299 Broadway, [illegible] the lowest bidders, their bid being $49,3[illegible]. For installing heating and ventilating ap[illegible]s in public school 86, on Flushing Av[illegible] Near Grand St., Boro. of Queens, Walker & [illegible]umbers, 50 East 20th St., were the lowest [illegible]ders, their bid being $23,875.

NEW YORK, N. Y.—The following bids were received Oct. 29 by the Board of Education for installing heating and ventilating apparatus in Public School 34, [illegible] Victor St. and Amethyst Ave., Boro. of Bro[illegible] E. Rutzler & Co., 127 White St., $26,0[illegible]; Blake & Williams, 211 West 20th St., $2[illegible]; Frank Dobson, 319 East 53d St., $26,2[illegible]. For general construction of public school [illegible] on Elm Ave., Fresh Pond Road and Hal[illegible] St., Boro. of Queens: Jas. MacArthur, 22 [illegible]ond Pl., $229,204; Thos. Cockerill & Son, 1[illegible] Columbus Ave., $238,900; Harry Berry Co., 101 West 66th St., $213,737; Chas. H. Peckworth, 415 Hudson St., $224,878; George Hildebrand, 38 Park Row, $227,333; Waters & O'Connell, 103 East 125th St., $234,996; Clark & Stowe, 44 Court St., Brooklyn, $223,300.

Bids were opened Oct. 31 at the office of the Supervising Architect of the Treasury, Washington, D. C., for a passenger elevator in the post-office building, New York. Bids were as follows: Otis Elevator Co., New York, $7,950; March 2, 1907. Marine Engine & Machine Co., New York, $9,540; Feb. 10, 1907.

J. B. Snook & Sons, Archs., 73 Nassau St., have plans for a college building, at 302-306 East 35th St., for the New York College of Dental and Oral Surgery, 216 West 42d St. It is to be five stories high, 80 x 100 ft., brick, stone, structural steel and iron, of fireproof construction. It is to cost about $200,000.

NEW YORK, N. Y.—Bids are asked by Francis J. Lantry, Fire Comr., until 10.30 a. m., Nov. 14, for erecting a building for engine company 51, on bulkhead at 99th St. and East River, Boro. of Manhattan.

SARATOGA SPRINGS, N. Y.—THE HUDSON VALLEY CONSTRUCTION CO., Engineers and General Contractors, of Troy, N. Y., have been awarded the contract for the erection of an Arcade Building at Saratoga Springs, for B. J. Goldsmith, to cost $80,000. Work is to be begun at once. Subcontracts are being closed and all interested parties should communicate at once with above company. Chas. P. Boland, Gen. Mgr.

HARRISBURG, PA.—The contract for the erection of the theater for M. Reis, of New York, and N. Appel, of Reading, has been awarded to E. C. & V. E. HORN, 1400 Broadway, New York, at $100,000.

SPRINGFIELD, MD.—Bids are asked at the office of Owens & Sisco, Archs., 1605 Continental Trust Bldg., Baltimore, until Nov. 14, for heating and plumbing of new dining-hall and kitchen of the men's group at the Springfield State Hospital for the Insane.

BALTIMORE, MD.—It is reported that a Catholic church is to be erected at Roland Park at a cost of $100,000.

Bids probably will be asked the last of November for the erection of the tobacco warehouse to be erected by the Maryland State Tobacco Warehouse Building Commission. Baldwin & Pennington, 330 North Charles St., are Archs.

BALTIMORE, MD.—Joseph Evans Sperry, Arch., 409 Calvert Bldg., Baltimore, is asking for bids on the new Y. M. C. A. Building, to be built at Franklin and Cathedral Sts., at a cost of $500,000. The building will be built of brick and stone and terra-cotta, of fireproof construction, eight stories high and basement.

WASHINGTON, D. C.—Bernard R. Green, Superintendent of Construction, National Museum Bldg., Washington, D. C., has made the following awards on the bids received, Oct. 13, for furnishing cut granite for the Museum: FRANK F. GRAHAM, Baltimore, for all of the building, except the basement in Bethel granite, $149,000; WEBB PINK GRANITE CO., Worcester, Mass., for basement in Milford granite, $17,365.

JAS. STEWART CO., New York, has been awarded contract for the construction of the train shed at the new Union Station, Washington, D. C. The shed will be in the form of a number of separate umbrella sheds, each 20 x 30 x 690 ft., and will be constructed of iron and concrete. W. D. Brown, Broad St. Station, Philadelphia, is Engr. D. H. Burnham, Rookery Bldg., Chicago, is Arch.

B. Stanley Simmons, Arch., 931 F St., N. W., Washington, is ready for bids on the superstructure of the Elks' Home, H St., between Ninth and Tenth Sts., Washington. The building is to be of brick, stone and reinforced concrete, five stories high, and will cost $125,000. Bids have already been taken on the excavation. Brennan Construction Co., 3056 K St., N. W., Washington, was lowest bidder and probably will receive award.

Eight competitive plans were received Nov. 5, by R. T. Warwick, Supt. of Construction of the new Hotel Randolph, to be erected at Pennsylvania Ave. and 14th St., at a cost of $400,000. The plans will be submitted to a board of architectural experts and decision reached and prizes awarded about Nov. 15. The building will be of brick, stone and terra-cotta, of fireproof construction, 351 x 50 ft., and will be ten stories and a basement.

Capt. John Stephen Sewell, Corps Engrs., Superintendent of Construction, Soldiers' Home, Washington, has had private plans

prepared for an addition to the Barnes Hospital, Soldiers' Home. The addition will be of brick and reinforced concrete.

WASHINGTON, D. C.—Bernard R. Green, Superintendent of Construction for the new National Museum Building, Washington, has awarded contract for the foundation and pier work connected with that building to the BRENNAN CONSTRUCTION CO., 3056 K St., N. W., Washington, at $31,900.

Bids were opened Oct. 31, at the office of Elliott Wood, Supt. of the U. S. Capitol Buildings and Grounds, for furnishing 6,000,000 bricks, for the Senate and House Office Buildings. Bids were as follows: Potomac Brick Co., Washington, $8.20 per M., for 3,000,000 bricks; Frederick Brick Works, Frederick, Md., $9.75 per M., for same number; Washington Brick & Terra Cotta Co., Washington, $8.08 per M., for 6,000,000; $7.90 per M., for 3,000,000; Standard Brick Co., Washington, $7.99 per M., for 6,000,000 bricks.

Wood, Donn & Deming, 808 17th St., N. W., are Architects for Masonic Temple Building, which is to be erected at 13th and H Sts., N. W., by the Masonic Temple Association. It is to be a 6-story brick building, 50.8 × 132 x 144 ft. of fireproof construction. Estimated cost, $400,000.

NORFOLK, VA.—E. TATTERSON has contract at $110,000 for the erection of addition to store building for Miller, Rhoads & Swartz. Breese & Mitchell are Archs. It will be five stories; entirely fireproof; of reinforced concrete with metal window frames. Elevators, electric fixtures and heating apparatus are not included in contract.

Same contractor has contract to erect building for the Gale-Paul-Greenwood Co. It is to be eight stories high and cost $100,000. Contract for building vault eight feet square with 8-in. reinforced concrete outside walls and 1½-in. Brooklyn chrome steel inner walls has been let.

MOBILE, ALA.—It is reported that the contract for erecting the hotel for Andrew Dacovich will be awarded in February. It is to be a 6-story fireproof building, to cost about $175,000. R. Benz & Sons, Masonic Bldg., are Archs.

CHATTANOOGA, TENN.—The contract for building the Hotel Patten has been awarded to GEORGE BAKER LONG, of Buffalo, N. Y. It is reported that his bid was $700,000. The hotel will be of steel construction and as nearly fireproof as modern materials can make a building. It is to be completed in one year.

MEMPHIS, TENN.—A St. Louis, Mo., syndicate, represented by I. N. Snowden, has purchased a site 75 × 148 ft. on which to erect a theatre at a cost of $200,000.

CLEVELAND, OHIO.—Bids are asked until noon, Nov. 28, by the Board of Trustees of the Cleveland State Hospital for the erection of an Industrial building at the hospital. Dr. A. B. Howard is Secy.

AKRON, OHIO.—Bids were asked by Mather M. Lucilla, Superior of the Sisters of the Holy Humility of Mary, Villa Maria, Pa., until noon, Nov. 27, for the erection of a college building at Mount Maria, Ohio. Wm. P. Ginther, Akron, is Arch.

BUSHNELL, ILL.—The question of issuing $125,000 in bonds for the erection of County Court House will be submitted to the voters.

CHICAGO, ILL.—Julian Barnes, Arch., 153 LaSalle St., let the carpentry contract for a bank building, being erected at 443 West 63d St., for First National Bank of Englewood, 467 West 63d St., to E. SPIERING, 3747 Rhodes Ave. To be three stories high, 52 × 150 ft., built of brick and stone. Estimated cost, $100,000.

Phillips, Rodgers & Woodgatt, Archs, 59 Clark St., let the general contract for a commercial building, to be erected at 13th St. and Wabash Ave., for Ira B. Cook, 140 Dearborn St., to J. SHEDDEN & CO., 92 LaSalle St., who sub-let the masonry to J. W. SNYDER, 100 Washington St. It is to be two stories high, 87 × 170 ft., built of brick and stone. The building is to be occupied by the Howe Scale Co., 50 Lake St. Estimated cost, $150,000.

It is reported that E. A. Eckstrom will soon let contracts for a building to be built at Michigan Ave. and Harrison St., for Mrs. Julia F. Heyworth. It will be fifteen stories high, 77 × 172 ft., of fireproof steel construction, have blue Bedford stone exterior, interior finish of white Italian marble and African mahogany, and is estimated to cost $1,000,000.

SUPERIOR, WIS.—O. H. OLSON, of Stillwater, Minn., has been awarded the contract to erect the public building here. Estimated cost, $200,000.

KANSAS CITY, MO.—George W. Hale, of Chicago, Ill., is preparing to erect a 150-room addition to the Midland Hotel, of which he is the owner. It is to be 80 × 120 ft., and will cost about $400,000.

ST. LOUIS, MO.—Claude E. Vrooman will erect a large apartment building on Goodfellow Ave.

HOT SPRINGS, ARK.—The School Board is preparing to erect a high school building to cost about $100,000.

LITTLE ROCK, ARK.—The contract was awarded Oct. 29, to STEWART & SCHMELZER, at $154,887, for the erection of a City Hall. Chas. L. Thompson is Arch.

SAN ANTONIO, TEX.—It is reported that G. Bedell Moore will erect a 5-story addition to the Moore Bldg. at a cost of $100,000. Atlee B. Ayres, 228 West Commerce St., is Arch.

GUTHRIE, OKLA.—The Board of Commissioners of Logan County has had plans made for a court house, to be built on the site on which the old one now stands. The building will be 84 × 110 ft., two stories high and basement, and will cost $100,000.

SPOKANE, WASH. — Dow & Hubbell, Archs., Empire State Bldgs., will prepare plans for August Paulsen for a steel frame fireproof office building to be erected on Riverside Ave. Estimated cost, $500,000.

COLORADO SPRINGS, COLO.—A Deaconess Sanitarium is to be erected here at a cost of $100,000.

LOS ANGELES, CAL.—J. B. Duke will expend $200,000 for the erection of a 6-story fireproof apartment building at Carondelet St. and Wilshire Boulevard.

BERKELEY, CAL.—Bids are soon to be asked for the erection of a new polytechnic high school. Two buildings will be erected, one a 3-story class A building, the other a 1-story brick or reinforced concrete. Estimated cost, $140,000.

SAN FRANCISCO, CAL.—George W. Kelhaus is architect in charge of the construction of the Palace Hotel. Trowbridge & Livingston, 424 Fifth Ave., are Archs.

Thomas S. Williams will erect a class A building at a cost of $10,000, at Mission and Third Sts.

SAN FRANCISCO, CAL.—Application was made recently by George D. Toy for a permit to erect a $200,000 building at O'Farrell and Powell Sts.

H. H. Bancroft filed an application for a permit to build a structure on the site of the old History building on Market St., near Third. It will be six stories high, and cost $150,000.

The Boyd Estate will erect a reinforced concrete 8-story building at Battery and Pine Sts., at an estimated cost of $175,000.

FREDERICTON, N. B.—A heating plant to cost about $8,500 is to be erected at the Victoria Public Hospital. C. A. SUMPON of Fredericton, has been awarded the contract.

MONTREAL, QUE.—Rodden & Egg, Archs., 21 Waddell Bldg., are preparing plans for a $100,000 Turkish bath-house to be erected on Dorchester St.

WINNIPEG, MAN.—A union depot, offices and a hotel for the Grand Trunk Pacific, Canadian Transcontinental and Canadian Northern will be erected on Main St., between Water St. and Assiniboine River at the cost of $3,000,000, to commence in the spring.

EDMONTON, ALTA.—A $6,000 steam heating plant is to be installed in the Bulletin Bldg. Bids probably will be received Nov. 21. H. A. Magoon is Design. Engr.

EDMONTON, ALTA.—Bids are asked by Fred Gelinas, Secy. Dept. of Pub. Wks., Ottawa, Ont., until Nov. 28, for construction of Dominion public building.

WATER SUPPLY—IRRIGATION.

The names of parties awarded contracts are printed in capital letters.

BURLINGTON, VT.—The citizens voted about $60,000 for a slow sand filtration plant on Nov. 6, we are officially advised. F. O. Sinclair, M. Am. Soc. C. E., Supt. Water Works.

HOLYOKE, MASS.—Bids are asked until 7.30 p. m., Nov. 12 by the Board of Water Commissioners, City Hall, for furnishing a quantity of c.-i. water pipe. James L. Tighe is Engr. (Advertised, Engineering News.)

NEW YORK, N. Y.—It is proposed to proceed immediately with the construction of the Ashokan Reservoir, in the Esopus Valley. This reservoir will cover 10,120 acres and have a capacity of 170,000,000,000 gallons. Its elevation above tide will be about 600 ft. This reservoir will then be connected with the present Kensico Reservoir by the aqueduct, proceedings to construct which are now being taken. Later the new aqueduct will be continued from the Kensico Reservoir down into the city. Condemnation proceedings are now being taken to acquire the land between the Kensico Reservoir and where it is proposed to have the new equeduct cross the Hudson River. Arrangements are also being made for similar proceedings between the place of crossing and the Ashokan Reservoir. When the new system is complete it will add about 500,000,000 gallons of water per day to the city's supply. John H. O'Brien is Comr. Water Supply, Gas and Electricity.

BERGEN, N. Y.—BAILEY, JOHNSON & SAUNDERS have been awarded contract for installing water-works system in Bergen.

YOUNGSTOWN, N. Y.—The question of constructing water-works is reported under consideration here, the supply to be from Niagara River. Probable cost, $20,000.

ARCADE, N. Y.—Contract for constructing an addition to the water-works system has been let to MURPHY BROS., Buffalo, N. Y. C. H. Reynolds is Village Clk.; F. K. Wing is Consult. Engr., White Bldg., Buffalo, N. Y.

NEW YORK, N. Y.—Bids are asked until 3 p. m., Nov. 22, by the Park Board, for constructing a fountain in new boat-house in Prospect Park. Moses Herrman is Pres.

ORANGE, N. J.—We have been officially advised that the SNOW STEAM PUMP CO., 114 Liberty St., New York, N. Y., has been awarded contract to install two compound Corliss pumps for the City of Orange. The contract price is over $35,000. Fred. T. Crane is City Engr.

NORFOLK, VA.—It is reported that the Board of Control has decided to install a reserve pump at water-works, as recommended by George W. Wright, Ch. Engr. Water Dept. The pump will have a capacity of 8,000 gallons a minute. Noted Oct. 11.

NORFOLK, VA.—The following bids were received Nov. 3 for pumping machinery at Dry Dock No. 3, Navy Yard, Norfolk (Specification No. 1514): James D. Brooke, Colorado Bldg., Washington, D. C., Item 1, $57,575. Camden Iron Works, Camden, N. J., Item 1, $60,100, $62,400; Item 2, $58,900, $59,900. D'Olier Engineering Co., 121 South Eleventh St., Philadelphia, Pa., Item 1, $62,820; Item 2, $60,750. Alberger Condenser Co., 95 Liberty St., New York, N. Y., Item 1, $58,902. Henry R. Worthington, P. O. Box 811, New York, N. Y., Item 1, $57,060. The Scofield Co., 904 Pennsylvania Bldg., Philadelphia, Pa., Item 1, $67,515. R. G. Packard Co., 130 Pearl St., New York, N. Y., Item 1, $92,512; Item 2, $89,987. Allis-Chalmers Co., Milwaukee, Wis., Item 1, $83,700.

FLORENCE, ALA.—It is reported that the Florence Water Co. has been incorporated with $125,000 capital stock. A. A. Berger is Pres.; N. C. Elting, Vice-Pres. and Secy., and T. A. Howell, Treas.

PINEVILLE, LA.—It is proposed to construct water-works system at a cost of $16,000. Ira W. Sylvester, of Alexandria, La., is Engr.; W. F. Huddle is Mayor.

MURRAY, KY.—It is reported that the city will issue bonds to cover cost of proposed water-works and electric lighting systems.

NEWARK, OHIO.—Contracts have been let to the PLATT IRON WORKS, of Dayton, for pumps for the Water-Works Department, amounting to $33,300, and the AMERICAN LIGHT & WATER CO. for immediate construction of a water-works plant.

DAYTON, OHIO.—The contract for the building of the high pressure water-works system and reservoir at Dayton, has been awarded to CHARLES L. ALLEN, of Marion, Ohio. The contract will cost in the neighborhood of $110,000.

PERU, IND.—Bids are asked by John J. Davisson, Supt. for constructing the Davisson ditch in Deer Creek Township.

SUTTONS BAY, MICH.—Bids are asked until Nov. 15 for constructing water-works system at Suttons Bay, to cost about $6,000. C. N. Brathen is City Clk.

CHICAGO, ILL.—We are officially advised that on Oct. 10 J. P. DOUGHERTY, 75 South Clark St., submitted the lowest bids and has been awarded contract for constructing 124 ft. of shafts and 400-ft. tunnel in rock, for pipe under Chicago River, at $11,098 and $11,700, respectively. Frank Murphy is Contract Clk., City Hall.

SIBLEY, ILL.—FIELD & SHORB CO., of Decatur, Ill., are reported to have secured the contract for constructing compressed air system of water-works at $4,990.

KEWANEE, ILL.—Bids are asked until 8 p. m., Nov. 8, by the Water Commission, for sinking two deep wells. Oscar Peterson is City Treas.; J. C. Bannister is Chn. Water Com.; E. F. Ingham is City Engr.

MOLINE, ILL.—On Oct. 29, the KING-LAMBERT CONSTRUCTION CO., of Des Moines, Iowa, was awarded the contract for the laying of the Third Ave. water main. The bid was $18,483. Only two bids were made on the job, the other being by the Moline Heating Construction Co., and was $18,670.

DES MOINES, IOWA.—The Executive Committee of the State Fair is reported to have decided to construct a system of water mains within the fair grounds, at a cost of about $9,000.

FRONTENAC, KAN.—It is reported that it is proposed to construct municipal water-works, at a cost of $20,000. F. O. Fogelberg, of Frontenac, is Engr.

FORT SCOTT, KAN.—We are officially advised that estimates and report are now being made on improvements to water-works and electric light systems at Fort Scott. Probable cost, $45,000. Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

MITCHELL, NEB.—The Secretary of the Interior, Washington, D. C., has executed a contract with MARCUS E. GETTER, of Mitchell, for the construction of ten miles of earthwork, distributing system, for the Interstate Canal, North Platte irrigation project, Neb., at $5,649. He has also executed a contract with the DEADWOOD CONSTRUCTION CO., of Deadwood, S. Dak., for the construction of Schedule 5, earthwork of distributing system, Interstate Canal, North Platte irrigation project, Neb., consisting of the earthwork on about 14 miles of laterals, involving the excavation of about 66,300 cu. yds. of material, at $12,615.

SCRIBNER, NEB.—We are officially advised that GEORGE W. CRAIG & CO., Omaha, Neb., on Oct. 27, was awarded contract, at $16,103, for constructing water-works system at Scribner. Other bidders were the Des Moines Bridge & Iron Co., Des Moines, Iowa, $16,210; Charles Thompson, Springfield, Neb., $16,624. Thomas Shaw, Paxton Block, Omaha, Neb., is Engr.

HARVEY, N. DAK.—It is reported that the proposed water-works system for Harvey will cost about $6,000. Loweth & Wolf are Engrs., of St. Paul, Minn.; F. A. Brewster is City Audr.

BOWBELLS, N. DAK.—It is reported that surveys are being made for water-works and a sewerage system, to cost $10,000. D. E. McLellan is City Audr.

GLENDIVE, MONT.—Plans, specifications and bidding sheet for laterals and waste ditches near Glendive, to be constructed for the U. S. Reclamation Service, as advertised, are on file at office of Engineering News, New York. Bids are asked until Dec. 15.

GLENDIVE, MONT.—Bids are asked until 10 a. m., Dec. 15, at the office of U. S. Reclamation Service, Glendive, for construction of structures on main canal and laterals, Lower Yellowstone Project, Mont. and N. Dak. E. A. Hitchcock, Secy. of Interior, Washington, D. C. (Advertised, Engineering News.)

KANSAS CITY, MO.—The contract for installing mechanical stoker of chain-grate pattern for No. 3 water tube boiler at Quindaro pumping station has been awarded to the STERLING CONSOLIDATED BOILER CO., at $9,650. Everett Elliott is Secy. Bd. of Pub. Wks.

MOBERLY, MO.—The citizens are reported to have voted to issue $100,000 of bonds for the construction of water-works.

CALIFORNIA, MO.—Bids are asked until 7.30 p. m., Nov. 19, for furnishing casing of and sinking an 8-in. well, about 2,000 ft. deep. W. C. Finke is Mayor; Burns & McDonnell, Dwight Bldg., Kansas City, Mo., are Engrs.

EUREKA SPRINGS, ARK.—It is reported that the city will extend its water-works and sewer systems. B. A. Langston is City Clk.

CANON CITY, COLO.—Hiram Phillips, of St. Louis, Mo., is reported to have prepared estimates of the cost of a mountain water supply for Canon City.

LONGMONT, COLO.—The City Council is reported to have decided to expend about $20,000 in water-works improvements. Peter O'Brian, of Denver, is Engr.

HIGHLANDS (Denver post-office), COLO.—A water-works system is to be installed at Highlands by an English syndicate, of which Henry J. Arnold is local agent.

WALSENBURG, COLO.—A company with a capital of $8,000,000 has been incorporated in Colorado, under the name of the Badito Reservoir, Irrigation & Land Co., and will carry on an irrigation and reclamation business. The principal reservoir is to be located at Badito, 14 miles from Walsenburg. About 100,000 acres of arid land will be reclaimed under the Carey act, and the outlay for construction work contemplates the establishment of townsite and general improvements. The land to be reclaimed is government tracts located in Huerfano, Pueblo, Las Animas and Otero Counties. The settlers procure their land directly from the government and the company furnishes water at a fixed rate. The incorporators of the company are E. J. Lesser, Joseph H. Blair and I. N. Blair. The money is furnished by Pennsylvania capitalists.

SEATTLE, WASH.—On Oct. 30 the INTERNATIONAL CONTRACT CO., 738 New York Block, Seattle, was awarded contract for constructing water mains in Ewing and other streets, at $11,572. Other bidders were: T. Ryan, Sullivan Block, Seattle, $11,784; Peter Dinean & Co., Seattle, $12,140. R. H. Thomson is City Engr.

SEATTLE, WASH.—The contract for water mains on First Ave. North has been awarded to SANFIELD & GIFFORD, at $14,085.20.

TACOMA, WASH.—The Commissioners of Public Works are reported to have awarded to M. J. MURPHY the contract for water mains in District 310, at $38,693, and to F. A. KEASEL for District 509, at $6,859. Frank L. Davis is City Engr.

PORTLAND, ORE.—Bids are asked until 3 p. m., Nov. 14, by the Water Board, for furnishing the city of Portland, not later than Dec. 31, with 1,000 large, round or oval waterway curb stopcocks. Frank T. Dodge is Supt.

SAN FRANCISCO, CAL.—The Board of Directors of the Merchants' Association received a report from Secretary L. M. King at the last meeting, submitting a plan for a high-pressure water system for Van Ness Ave., to relieve the danger from fire in that district, and the directors ordered that the plan be laid before the business men on Van Ness Ave. for their consideration. The cost of the Van Ness Ave. system is estimated at $140,607, and the cost of the Polk St. laterals at $31,042, or a total for the entire district of $171,649. The expense of maintaining and operating the pumping station will be only moderate. The plan is to be considered by the merchants interested.

WHITEROCKS, UTAH.—Bids were received Oct. 31 at the office of the Indian Commissioner, Washington, D. C., for a water system at the Uintah and Ouray Agency, Utah, as follows: W. J. Lovell, Minneapolis, $6,714; James H. Owen, Los Angeles, Cal., $4,790.

MOUNT FOREST, ONT.—The contract for extending the water system here has been awarded to J. P. NOONAN, at $3,490.

THOROLD, ONT.—We are officially advised that contracts for installing water system at Thorold will not be let until next summer. Willis Chipman, 105 Bay St., Toronto, Ont., is Engr.

WINNIPEG, MAN.—Col. H. N. Ruttan, City Engr., advises us nothing beyond making surveys will be done at present toward establishing the proposed system of water-works, having source at Shoal Lake.

CARMEN, MAN.—In connection with the water system to be installed at Carmen, the following contracts have been let: The CANADIAN PIPE CO., Vancouver, B. C., for various kinds of modern pipe; WALLER & MACKENZIE, for laying water mains and sewers; ONTARIO WIND ENGINEERING & PUMP CO., for stand pipe; the CANADIAN FAIRBANKS CO., for hydrants, specials, etc. Cecil Goddard is Consult. Engr., Winnipeg, Man.

WINNIPEG, MAN.—The Council has awarded the tender for water pipe to the CAMDEN IRON WORKS CO., Camden, Pa. Price, $43,114.36.

SEWERAGE.

The names of parties awarded contracts are printed in capital letters.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 13, by Louis F. Haffen, Pres. Boro. of the Bronx, for constructing sewers in Westchester Ave., between Whitlock Ave. and West Farms Road.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Nov. 16, by the Department of Public Works, for cleaning and repairing the Swan and Fourth Sts. sewers, between Hydraulic and Albany Sts. The sewers are about 4 miles long and four and eight ins. in diameter.

FORT ONTARIO (Oswego post-office) N. Y.—We are officially advised that contract for constructing storm water drain at this post has been awarded to TAFT & WOODCOCK, of Fulton, N. Y., at $5,266. Lieut. Henry H. Hall is Constr. Q. M.

SOUTH GLENS FALLS, N. Y.—The Board of Education has authorized the Sewer Committee to construct a sewer from the new High School on Fifth St. to the river. The Morgan Lumber Co. has presented a request that the sewer be constructed through district in which it intends to build a number of dwellings.

ROCHESTER, N. Y.—The Council has passed an ordinance providing for the construction of a sewer in Water St., from Main St. to Central Ave., at a cost of $14,000.

CONNELLSVILLE, PA.—S. M. Faust, City Engr., Connellsville, will soon ask bids for 1,500 ft. of 18, 12 and 8-in. pipe sewers.

ALLEGHENY, PA.—BOOTH & FLINN CO., LTD., and A. V. PURNELL, both of Pittsburg, have been awarded contracts, amounting to $80,000, for sewer construction and street improvements in Allegheny. Edward T. McIlvain is Dir. Pub. Wks.

ROANOKE, VA.—Bids are asked until Nov. 19 by W. E. Thomas, Clk. of Council, for constructing sewers in Woodland Park, Roanoke.

KIRKWOOD, W. VA.—An addition to the sewer system is to be installed and work will begin about Dec. 1.

WHEELING, W. VA.—The FORT HENRY CONSTRUCTION CO. has been awarded the contract for laying sewers through Elm Heights and McCurdy's addition to Elm Grove. B. C. Cook is City Engr.

FAYETTEVILLE, N. C.—Contract for constructing sewer system has been let to ABEL & EDWARDS, Hickory, N. C., at about $19,000.

GREENVILLE, N. C.—It is reported that Greenville proposes to construct a sewer system at once, to cost about $15,000. The sewers will be of brick and bids will be asked this month. J. L. Ludlow is Engr., Winston-Salem.

ORANGEBURG, S. C.—Bids will shortly be asked for constructing a sewer system in this town. Edward Hawes, Jr., is City Engr.

MARIETTA, GA.—It is stated that H. M. Sessions will put in a sewer system at this town.

NEW ORLEANS, LA.—THE BARBER ASPHALT PAVING CO. is reported to have secured the contract on Oct. 25 for subsurface drains on Saratoga, Gallatin, Valence and Hospital Sts., at $50,961. The CENTRAL IMPROVEMENT & CONSTRUCTION CO. for same work on Berlin St., at $20,882.

LOUISVILLE, KY.—The proposition to issue $4,000,000 of bonds for complete sewer system at Louisville will be submitted to a vote of the citizens.

OBERLIN, OHIO.—Bids are asked until noon, Nov. 19, by the Sewer Committee for extending the main trunk sewer in Oberlin. O. F. Carter is Mayor; W. B. Gerrish is Clk.

YOUNGSTOWN, OHIO.—Bids are asked until Nov. 12 by the Board Public Service for constructing sewers in portions of several streets. G. T. Prosser is Clk.

BARBERTON, OHIO.—Harry Alcorn, City Engr., is stated to have submitted to Council his report on the cost of main storm sewer in District No. 2, which he estimates at $10,620. This includes about three miles of sewer pipe, 41 catch-basins, 21 manholes and two cofferdams.

TOLEDO, OHIO.—It is reported that BREYMAN & O'NEILL of Toledo, have the contract for constructing the sewer in Auburndale, at $34,000.

AKRON, OHIO.—Contract for constructing Wolf Ledge storm sewer, for which bids were received Oct. 19, has been awarded to McALLONAN BROS. of Akron, at $11,304.

DAYTON, OHIO.—The Board of Public Service on Oct. 24 awarded the contract for the sewer pumping station at the foot of Longworth St., to FRED. W. KROEMER, at $9,500. Robert E. Kline is City Engr.

The Board of Public Service has awarded the contract for the construction of storm sewers in that city to WILLIAM McCARTHY & CO. of Dayton. The contract price is about $150,000.

PORTSMOUTH, OHIO.—SAMUEL MONROE & SON of Portsmouth, have secured construction of 24-in. sewer on Baundry St., Portsmouth.

HAMILTON, OHIO.—The Board of Public Service on Oct. 25 awarded W. N. ANDREWS contracts for the construction of house connections and sanitary sewer in South Fourth, South Fifth and Henry Sts. and Park Ave.

YOUNGSTOWN, OHIO.—Bids are asked until noon, Nov. 12, by the Board of Public Service, for constructing sewer in Oakland Ave., from Superior to La Fayette Sts.

TOLEDO, OHIO.—We are officially informed that contract for constructing Sewer No. 984, in Auburndale, has been let to BUYMAN & O'NEILL. Frank I. Consaul is City Engr.

INDIANAPOLIS, IND.—Charles A. Brown, Asst. City Engr., advises us that the Board of Public Works of the City of Indianapolis has approved plans for the North Indianapolis Sewer System. Bids will be received at the office of the Board in the course of the next four weeks. The size of the sewer will vary from 3½ × 3 ft. to 7 ft. × 8 ft. (brick or concrete semi-circular), also circular brick or concrete sewer 2¾ ft. in diameter; also pipe sewer 10 to 20 in. in diameter. Estimated cost, $115,000.

LITCHFIELD, ILL.—A sewer system will be constructed in Litchfield at a cost of about $70,000.

PINCKNEYVILLE, ILL.—We are advised by George F. Mead, Mayor of Pinckneyville that the City of Pinckneyville has organized a Board of Public Improvement and has taken steps to put in public sewers at cost of $48,417, amounting to something over eight miles of sewers. Harper Bros., Sexton Bldg., East St. Louis, Ill., have made surveys, plans and specifications. First public hearing was held Nov. 5. The Board of Local Improvement consists of George F. Mead, Pres.; J. C. Neicing and William R. Dwyer. W. W. Burk is City Clk.

ROCHELLE, ILL.—The Board of Local Improvement is reported to have awarded to PAUL G. BAXTER of Rochelle, the contract for completing abandoned sewer work, and constructing a septic tank at about $30,000.

DES MOINES, IOWA.—Bids are asked by the Board of Public Works, until 11 a. m., Nov. 15, for constructing the Grand View sewer system. George D. Dobson is City Engr.

ST. PAUL, MINN.—CARLSON & PRESTON are reported to have secured the contract on Oct. 25, for constructing sewers in Lexington and Goodrich Aves., at $5,025.

ASHLAND, ORE.—The contract for constructing sewer in District No. 6 has been awarded to E. E. PHIPPS, at $3,775.

SAN JOSE, CAL.—Bids are asked until Nov. 26, for constructing 61,314 ft. pipe sewers, varying in size from 6 to 24 ins. in diameter. Charles H. Pieper is City Engr.

TWIN FALLS, IDAHO.—Bids are asked by Village Trustees, Irving R. Darrow, Clerk, until 7 p. m., Nov. 17, for constructing trunk and outlet sewer system. Irving R. Darrow is Village Clk.

SELKIRK, MAN.—Bids are asked by Thomas Partington, Clk., until noon, Nov. 12, for supply of vitrified sewer pipe, f. o. b. Selkirk, in carload lots of sizes running from 9 to 24 ins. in diameter. Bids are to state price of "Y" junctions for various sized pipes and slants for connections in concrete sewers. Bids will also be received until the same date for the necessary excavation; also for the construction of catch-basins, manholes, etc.

STREETS AND ROADS.

The names of parties awarded contracts are printed in capital letters.

PUTNAM, CONN.—Bids will be received until Nov. 12, by the Board of Selectment C. M. Green, Chn., for constructing a gravel and gravel-telford section of road in this town.

NEW YORK, N. Y.—The following bids were received on Oct. 30, by John W. Brannan, Pres. Bd. of Trustees of Bellevue and Allied Hospitals, for all labor and materials required for the excavation and masonry, steel and iron, grading roads and walks, sodding and seeding, subsoil and drainage, and all other work for the completing of the property surrounding the new Fordham Hospital buildings, in the Borough of the Bronx: John Binney, $49,919; Kelly & Kelley, 45 East 42d St., $51,805; L. McHarg & Co:. 299 Broadway, $42,250; Thomas Crimmins Construction Co., 444 East 69th St., $36,280; George I. Bailey, 1199 Fulton Ave., $43,500; T. V. Smith Construction Co., 147 East 125th St., $45,000; Thomas F. Murray, 1871 Jerome Ave., $65,500; John H. Parker Co., 225 4th ave., $46,777.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 13, by Louis F. Haffen, Pres. Boro. of the Bronx, for grading, regulating, setting flags and laying sidewalks on East 158th St., from Morris to Park Aves., and on Kingsbridge Terrace, from Kingsbridge Road to Boston Ave.

Bids are asked until 3 p. m, Nov. 13, by the Park Board, for constructing a complete granite entrance at Ninth Ave. and 15th St., Prospect Park, Brooklyn.

ALBANY, N. Y.—A list of bids received on Oct. 31 by Henry A. Van Alstyne, State Engr. and Surv., for improving various State roads will be given in Engineering News Nov. 15.

AMSTERDAM, N. Y.—BAIRD & BAXTER have been awarded contract to pave Lyon St., at $13,695. F. E. Crane is City Engr.

WELLSVILLE, N. Y.—It is reported that the contract for grading, curbing and paving with brick portions of West State and West Pearl Sts. and Brooklyn Ave., has been awarded to JOHN MAHONY of Jamestown, at $20,745. R. H. Lee is Engr. in Charge.

BRIDGETON, N. Y.—Bids are asked by the Purchasing Committee of the Council until 7.45 p. m., Nov. 13, for furnishing 50,000 vitrified brick. Sample of brick must accompany each bid. R. G. McGear, William Daniels and T. H. Woodruff are members of the Committee.

BUFFALO, N. Y.—Bids are asked until 11 a. m., Nov. 16, by the Department of Public Works, for paving Poplar Ave., 4,326 sq. yds., Lord St., 6,361 sq. yds., Dempster St., 3,698 sq. yds. and Rey St., 666 sq. yds. F. G. Ward is Comr.

GREENSBURG, PA.—The Council has let contract to the TRUSSED STEEL CO. of Greensburg, to lay concrete sidewalks, and to DICK WILLARD, also of this town, to lay flagstone walks in front of about 150 properties where the owners have failed to act.

SCRANTON, PA.—Bids are asked until 11 a. m., Nov. 10, by Charles A. Acker, Dir. Dept. Pub. Wks., for paving North Eleventh Ave. from Lackawana Ave to West Linden St., with stone block on sand base. Henry Jifkins is Ch. Engr. Dept. Pub. Wks.

BALTIMORE, MD.—The municipal Board of Awards, City Hall, has awarded contract to the U. S. WOOD PRESERVING CO., 29 Broadway, New York, N. Y., A. H. Hleatzman, Agent, 102 North Sharp St., for paving with wooden blocks one block on North Holliday St., at $3.59 per sq. yd; and to PATRICK FLANIGAN & SON, Lexington and Calvert Sts., for macadamizing Ninth St. from North to Clifton Ave., at $1.15 per sq. yd.

NORFOLK, VA.—Bids are asked until Nov. 20, by the Board of Control, for laying granite block paving on Liberty St., Berkley Ward. H. Hodges is Chn. Bd. of Control.

FREDERICKSBURG, VA. — McDONNELL & MUSSELMAN have contract for improving Washington Ave. The work will include bitulithic sidewalks, granite curb and macadam roadway. About $4,400 will be expended.

LEBANON, VA.—It is proposed to expend between $50,000 and $100,000 in improving roads in Russell County. P. St. J. Wilson, Richmond, Va., is Highway Comr.

McMECHEN, W. VA.—HIGGINS & HIRST of Moundsville, W. Va., have contract for paving McMeechen Ave. with brick.

ASHEVILLE, N. C.—The ATLANTIC BITULITHIC CO of Spartanburg, S. C., has secured contract for 23,000 sq. yds. of bitulithic.

AUGUSTA, GA.—Surveys will be made at once for the construction of proposed boulevard around the city. It will be 15 miles long, beginning at King Mill Bridge. Nisbet Wingfield, Comr. of Pub. Wks., is in charge.

ATLANTA, GA.—Contract for asphalt paving has been let to the ASPHALT PAVING CO. OF GEORGIA, at about $40,000. W. J. Campbell is City Clk.; R. M. Clayton is City Engr.

MONTGOMERY, ALA.—Bids are asked until Nov. 28, for paving and improving several streets in Montgomery. R. S. Williams is City Treas.

BIRMINGHAM, ALA.—The City Council has passed ordinances providing for the improvement of various streets in Birmingham. George B. Ward is Mayor; J. C. Murray is City Clk.; Julian Kendrick is City Engr.

NEW ORLEANS, LA.—The city engineer is reported to have recommended awarding contracts for paving as follows: Barber Asphalt Paving Co., with asphalt, Berlin St., $17,216; Gallatin St., $4,179; Valence St., $64,676; Hospital St., $2,219; Carondelet St., $18,356.

RAYNE, LA.—Bids are asked until Nov. 22, by O. Broussard, Mayor, for constructing 7,000 ft. brick curbing and 40,000 sq. yds. of cement sidewalks. R. B. Boettcher is Engr., Rayne.

KNOXVILLE, TENN.—The City Council has ordered contracts awarded for about 5½ miles of brick, bitulithic and asphalt paving, under the provisions of the abutting property bill. The SOUTHERN PAVING & CONSTRUCTION CO. of Chattanooga, gets work amounting to $148,058; the SOUTHERN BITULITHIC CO. of Nashville, work amounting to $119,288, and the BARBER ASPHALT PAVING CO. work amounting to about $14,000.

ADDYSTON, OHIO.—Bids are asked until Nov. 20, by W. T. Coleman, Village Clerk, for improving a portion of Cincinnati Ave. by grading and macadamizing with broken stone and gravel.

PAINESVILLE, OHIO.—St. Claire St. will be paved and curbed at a cost of $17,000.

MIAMISBURG, OHIO.—The Board of Public Service has let contract to J. O. SHOUP of this city, for about ten squares of vitrified brick paving at $10,000. H. Albrecht is Clk.; G. W. Riley is City Engr.

SANDUSKY, OHIO.—The Board of Public Service contemplates paving Monroe St. from Maize to Columbus Sts., including East Park Ave. and Monroe St., from Camp to Columbus Sts., including West Park Ave. H. C. Schultz is City Engr.

ASHTABULA, OHIO.—Bids are asked by the Board of Public Service until noon, Nov. 13, for improvement of Bell St. from Ward to West Sts., by grading and otherwise improving it. A. J. Richardson is Clk.

PRINCETON, IND.—S. A. REAXIS & CO. have secured the contract for brick street paving in Hart St., between State and Southern Sts., at $4,457.

MICHIGAN CITY, IND.—The County Commissioners are reported to have opened bids as follows for constructing 2¾ miles of the Wolf macadam road from Michigan City to Laporte: W. B. Hutchinson & Co., $15,827; Henry Schall, $15,465; W. A. Steigley, $15,876; August Dick, $15,824, and JACOB ACKERMAN of Laporte, $15,800 (awarded contract).

TIPTON, IND.—PORTER & BOWLIN of Tipton, have been awarded contract for paving streets with brick and for constructing cement sidewalks on East St. Clyde Porter is City Clk.

TUSCOLA, ILL.—WILLIAM LOUCH of Tuscola, is reported to have secured the contract for paving with brick Locust, Oak and Chestnut Sts., at $19,464.

DUBUQUE, IOWA.—Bluff St. will be paved from Third to Eighth Sts., at $10,560. Edmund A. Linehan is City Recdr.

DES MOINES, IOWA.—Bids are asked until Nov. 20, by the Board of Public Works, for paving about 3,520 sq. yds. of West Fifth St. with asphalt. W. W. Wise is Chn.

The BARBER ASPHALT CO. of Des Moines, has secured the contract for paving West 27th and West Fifth Sts. with asphalt, at $1.82 per sq. yd.

DULUTH, MINN.—HUGH STEELE is reported to have secured the contract for paving a portion of Commerce St., at $9,307.

SPRINGFIELD, MO.—J. L. RICHARDSON has the contract for five blocks of brick paving, at $12,000. J. H. Phillips is City Engr.

KIRKWOOD (St. Louis post-office), MO.—The Board of Aldermen of Kirkwood have awarded to HENRY WINTER, JR., contract for reconstructing Main St., at $3,419. Webster Ave. is to be improved at about $6,000.

FORT WORTH, TEX.—A contract for 22,000 sq. yds. of bitulithic has been awarded the TEXAS BITULITHIC CO. of Dallas.

DALLAS, TEX.—An additional contract for 37,000 sq. yds. of bitulithic has been awarded the TEXAS BITULITHIC CO. of Dallas.

WEATHERFORD, OKLA.—This city will construct six blocks of 12-ft., three blocks of 6-ft., and two blocks of 4-ft. brick, stone or cement sidewalk, and 600 or 800 ft. of brick street crossings. W. K. Cunningham is City Clk.

PORTLAND, ORE.—Notice has been given of the city's intention to improve various streets in Portland. Thomas C. Deluin is City Audr.

PORTLAND, ORE.—A contract for 3,159 sq. yds. of bitulithic has been awarded the WARREN CONSTRUCTION CO.

SEATTLE, WASH.—The SEATTLE STONE CO. has been granted contract, at $3,820, for sandstone pavements on Madison St. from Ninth Ave. to Terry St.

TACOMA, WASH.—P. F. McHUGH has secured the contract for gr[illegible] East M St., at $13,054, and P. J. CON[illegible]ON the contract for grading Thompson [illegible] at $3,600.

SPOKANE, WASH.—The [illegible]ing, curbing and parking a[illegible]ct for grad- Ave. is reported to have [illegible]ion of 14th PETER COSTELLO, East [illegible] awarded to for $7,000, and the contract [illegible]ssion Ave., sidewalk on the same to RO[illegible]onstructing at $3,500. [illegible] BIEGLE.

VANCOUVER, WASH.—W[illegible] officially advised that contract for [illegible]ing State Road No. 8, clearing, gradi[illegible] bridging was let to H. D. FLEMING o[illegible] 29 F. J. Bailey is County Surv.; A. [illegible]nham is County Audr.

OAKLAND, CAL.—A contra[illegible] the completion of street work on the H[illegible] Boulevard, between 22d and 24th [illegible] has been awarded to the BLAKE & BI[illegible] CO. by the Board of Public Works. [illegible] Turner is City Engr.

HALIFAX, N. S.—A contract [illegible] 2,145 sq. yds. of bitulithic has been [illegible]ded the WARREN BITUMINOUS PA[illegible] CO of Toronto, Ont.

TORONTO, ONT.—A contract [illegible] 3,451 sq. yds. of bitulithic has been [illegible]ded the WARREN BITUMINOUS PAVI[illegible] CO. of Toronto. C. H. Rust is City Engr.

MANUFACTURING PLANTS.

The names of parties awarded contracts are printed in capital letters.

FALL RIVER, MASS.—It is reported that the Union Cotton Mfg. Co. is to build a new mill here.

NEW BEDFORD, MASS.—Hardy, Whitman & Co., Boston, who control the Whitman and Manomet mills, at New Bedford, will build a new yarn mill, to be located on recently acquired land north of the Manomet Mills, but independent of it. The new mill will be 130 × 700 ft.

GREYSTONE, R. I.—J. W. BISHOP CO., Worcester, Mass., have the contract for an enlargement of the plant of Joseph Benn & Sons, after plans prepared by F. P. Sheldon & Co., Archs., Providence. Cost, about $150,000.

NEW YORK, N. Y.—Bids are asked until 11 a. m., Nov. 15, by John V. Cozzey, Comr. of Correction for furnishing supplies for manufacturing purposes for the New York City Reformatory on Hart's Island.

OSWEGO, N. Y.—The Standard Spinning Co. will erect an addition to its present plant. It is to be 50 × 50 ft. and one-story high. New machinery will be installed.

BRISTOL, PA.—The Standard Cast Iron Pipe Co., of Burlington, N. J., will have plans prepared for a large brick and steel plant to be erected here. Equipment for the manufacture of cast-iron pipe will be installed. John Hamer, of Burlington, is Engr.

EDDYSTONE, PA.—Hitner & Son, of Philadelphia, have purchased a tract of land here and will erect thereon a large plant for the manufacture of steel.

It is rumored here that the Philadelphia Gas Engine Co. is negotiating for a tract of land here for the purpose of removing its plant also to that place.

PHILADELPHIA, PA.—F. C. MICHAELSON, Land Title Bldg., has been awarded the contract to erect a 3-story addition, 40 × 150 ft. to the mill working plant of Swenk Benson, at 23d and Cherry Sts.

WILLIAM STEELE & SONS CO., 1600 Arch St., have the contract for a 6-story factory building, 60 × 100 ft., at Fifth and Master Sts., for Drueding Bros. It is to be of brick and reinforced concrete, of fireproof construction. Estimated cost, $100,000.

Wm. Steele & Sons, 1600 Arch St., are having plans prepared for a light manufacturing and warehouse to be erected here. It is to be a 6-story reinforced concrete building. Estimated cost, $200,000.

PITTSBURG, PA.—The plant of the Carnegie Plough & Mfg. Co., of East Carnegie, was destroyed by fire Nov. 2. The loss will probably reach $125,000, with about 50% covered by insurance. It is said the plant will be rebuilt at once.

BALTIMORE, MD.—The Maryland Biscuit Co., 516 Charles St., will have plans prepared for a 6-story addition, 50 × 165 ft., to its baking plant. It is to be of brick and steel.

BALTIMORE, MD.—The Simpson, Doeller Co., on Milton Ave., will have plans prepared for a 5-story reinforced concrete manufacturing plant to be erected at Milton Ave. and Lanvale St. It is to be 70 × 150 ft., and will cost about $150,000. Power plant and special machinery will be required.

HAGERSTOWN, MD.—The Western Maryland Railroad Co., Continental Trust Bldg., Baltimore, will have plans prepared for machine shops to be erected here. It is to be a one-story brick and steel building, 130 × 300 ft.

CHARLESTON, W. VA.—The National Veneer Co. will erect three buildings, 150 × 58 ft., 110 × 40 ft. and 40 × 40 ft., all to be of brick construction. Estimated cost, $25,000. D. W. Daly, 3301 Penn Ave., Pittsburg, Pa., is Arch.

HICKORY, N. C.—The Hickory Ice & Coal Co. will install 25-ton ice plant. A building 100 × 50 ft. will be erected. About $25,000 will be invested in building and equipment; Henry Vogt Machine Co., Louisville, Ky., Arch. in Charge.

RAMSEUR, N. C.—The Ramseur Furniture Co. will erect a 2-story building, 50 × 100 ft., for machine shop and a warehouse, 34 × 160 ft. E. C. Watkin is Secy.-Treas.

BYRON, GA.—W. H. Ezell is organizing company to establish hosiery-knitting mill, the machinery to be operated by water-power. No equipment has been purchased.

SUMMERVILLE, GA.—Contract has been let to ADAMS & SCHNEIDER, of Chattanooga, to build the Summerville Cotton Mills at this place, work to commence at

once. The price for building the mill proper will be $34,000. Contract for warehouses and tenant houses will be let later. This will be one of the most improved mills in the South, nothing but the very best materials and machinery to be used.

BESSEMER, ALA.—The Bessemer Steel Casting Co. will be organized with capital stock of $150,000 to build a plant for manufacturing steel castings by the Hawkins-Key process, expecting to begin construction work in November and have the plant completed by March, 1907. It is reported that the daily capacity will be from 60 to 80 tons of high-grade steel. The company will obtain its rights for using the process from the Globe Steel Filtration Process Co., David R. Perry, Pres., Detroit, Mich.; F. N. Andrews, Southern representative, 802 Brown-Marx Building, Birmingham, Ala. It is claimed the new process largely increases production and reduces cost in manufacturing high-grade steel from foundry iron.

NASHVILLE, TENN.—The Hagar Carburetor Co., which was recently incorporated with a capital of $15,000, will erect a building 50 × 150 ft. About $10,000 is to be expended on buildings and equipment. Chas. S. Brown, of Vanderbilt University, is Engr. in Charge.

DETROIT, MICH.—Plans have been completed by the Grand Trunk Railroad Co. for new roundhouse and shops to be erected at a cost of $75,000, between Dequinder St. and E. Aubin Ave. JOHN HAYMAN & SONS, of Detroit, are contractors.

MADISON, WIS.—The Northern Electric Company, controlled by the General Electric Company, will build a $100,000 addition to its plant at Madison, Wis. It will result in an additional force of 200 men being employed.

PALESTINE, TEX.—The Palestine Electric Light Co. will build a 40 or 50-ton ice factory and coal storage plant here.

HOUSTON, TEX.—It is reported that the Board of Trade of Fort Worth has secured $20,000 of the required $25,000 necessary to bring the business of a Kingston, N. Y., knitting manufactory to this place. The industry will require 300 hands, and a building 75 by 100 ft. will be built, besides boiler house, bleachery and dyehouse.

The Sealy Mattress Co. was incorporated Oct. 18, with $100,000 capital stock to take over and operate the plants of the Sealy Cotton Mattress Co., located in Sealy and Ringgold, Tex. It is also proposed to erect a plant in Houston upon four acres of ground recently secured to provide an output of 100 mattresses daily. The plants at Sealy and Ringgold will be enlarged. W. T. Eldridge, of San Antonio, Tex., is Pres.; T. J. Underwood, of Sealy, Secy.-Treas. and Gen. Mgr. The Haynes patent Sealy mattress will be manufactured.

CHICKASHA, IND. T.—The Oklahoma Fiber Co. is the name of the latest Chickasha organization. This company is composed of prominent local business men, including M. Potts, R. G. Latting, L. C. Hutson, E. C. Burton and H. L. Jarboe, Jr. As stated in the incorporation papers, the object of the company "is to sell fiber made from cotton, cottonseed and cottonseed hulls, to buy and sell cotton, cottonseed, seed cotton and cottonseed products, to manufacture and sell paper, paper stock and guncotton, and do other things in connection with such business."

LA JARA, COLO.—E. R. Stark, Colorado Springs, Colo., in connection with various farmers in this region, will build a beet sugar factory here during the next year. Probable cost, $1,000,000.

SEATTLE, WASH.—The Westinghouse Electric Mfg. Co. has purchased property here on which to erect a large plant.

MONTREAL, QUE.—The Union Brewery Co., Montreal, will erect a large brewery at a cost of about $10,000.

C. H. Sharpe, Montreal, will erect a four-story glass factory at a cost of about $19,000.

TORONTO, ONT.—Wm. Neilson will erect a factory and stable on Gladstone Ave. at a cost of about $15,000.

The Minerva Mfg. Co. intend erecting a factory at a cost of about $40,000; also a block of stores on College St., at a cost of about $60,000.

The Adams Furniture Co. will erect a factory on Victoria St., at a cost of about $30,000.

The Toronto Plate Glass Co. will erect a new factory at a cost of about $16,000.

VANCOUVER, B. C.—The Dominion Woodpipe Co. has been organized here for the purpose of erecting a plant for the manufacture of wood-pipe.

MISCELLANEOUS CONTRACTS.

The names of parties awarded contracts are printed in capital letters.

CANAL, LATERALS.—Glendive, Mont.—U. S. Reclamation project. See Water Supply and Irrigation.

DIKE.—Westport, Wash.—J. M. BRUCE & CO., Seattle, Wash., have contract for building three miles of dike near Westport, for a company of capitalists, headed by A. W. Corliss, of Seattle, Wash.

TIES.—Shreveport, La.—The Kenefick-Hammond-Quigley Construction Co., of Beaumont, La., is in the market for 50,000 first-class cypress ties loaded on cars at points on the Texas & Pacific R. R., between Shreveport, La., and Alexandria, La.

ORDNANCE.—Washington, D. C.—The Bureau of Ordnance, War Dept., Washington, has rejected all bids for furnishing ten 15-pounder barbette field carriages. The prices asked were excessive and the Bureau has decided to have the carriages made at the Watertown Arsenal.

REPAIRING FERRY-BOATS, ETC.—New York, N. Y.—Bids were received on Nov. 2 by the Department of Docks for furnishing all labor and materials required for repairing and painting the municipal ferry-boats or other floating property of the department and furnishing and delivering miscellaneous supplies therefor, as follows: John F. Walsh, Jr., 136 Charlton St., $147,750; Alexander Miller & Bros., $150,350; Monad Engineering Co., 147 Cedar St., $128,900; James Reilly Repair & Supply Co., 78 Beach St., $119,510; James Shewan & Sons, Houston St. and East River, $71,156.

CHANNEL.—Cuero, Tex.—Maj. Edgar Jadwin, Corps Engrs., Galveston, advises us that there has been no appropriation made as yet for a two-lock channel between Victoria and Cuero. It is expected that the plan will be brought to the attention of Congress at the next session. Estimated cost, $500,000.

TELEPHONE LINE.—Minneapolis, Minn.—E. H. Moulton, Pres. of the Tri-State Telephone Co., of Minneapolis, states that the company will extend the line 450 miles to Chicago. This will make a long-distance connection from Chicago to Glendive, Mont., and materially enlarge the field of telephone service in the West.

PIPE-LINE.—Pine Grove, W. Va.—The Pure Oil Co. is to issue $1,000,000 new common stock at par for the purpose of constructing a 16-in. crude oil pipe-line from Pine Grove, Wetzel County, W. Va., to Marcus Hook, near Philadelphia, 285 miles. This will bring the outstanding common stock of the company up to $4,500,000.

NAVAL SUPPLIES.—Washington, D. C.—Bids are asked until 10 a. m., Nov. 27 by the Bureau of Supplies and Accounts, Navy Dept., for furnishing at various naval stations and navy yards a quantity of miscellaneous naval supplies. Bids are also asked until Dec. 4 for similar supplies. H. T. B. Harris, Paymaster-Gen., U. S. A.

CEMENT.—Portland, Ore.—The Secretary of the Interior has executed a contract with the PACIFIC PORTLAND CEMENT CO., CONSOLIDATED, of San Francisco, Cal., for furnishing 27,000 bbls., more or less, of Portland cement for the Sunnyside and Tieton irrigation projects, Washington. The cement is to be furnished at $2 per bbl., f. o. b. cars at the company's mill, Tolenas, Cal.

PIER.—Norfolk, Va.—Lieut. E. J. Dent, Corps Engrs., U. S. A., Engineer Officer-in-Charge at Washington, D. C., has awarded to the SCOFIELD CO., of Philadelphia, contract for the construction of two long piers extending into Hampton Roads, to be used in connection with the Jamestown Ter-Centennial Exposition. The contract price is $385,000 and the time of completion 108 days.

CLEARING AND GRADING.—Washington, D. C.—Bids were opened Oct. 30, at the Bureau of Supplies and Accounts, Navy Dept., Washington, for clearing 17½ acres and grading a portion of the Naval Magazine Reservation, Ostrich Bay, Wash., excavating a minimum of 35,000 and a maximum of 50,000 cu. yds. Bids were as follows: Gamwell & Wheeler, Seattle, Wash., $21,975; F. A. McDonald & Ford Peck, Charleston, Wash., $26,880, or $17,500.

VESSELS.—Washington, D. C.—The Light House Board, Washington, D. C., has rejected as excessive all bids on the light-house tenders "Tulip," "Cypress" and "Manzanita," opened Oct. 30, the first two to be delivered at Tompkinsville, N. Y., and the last at Astoria, Ore., or Tompkinsville. The following bids were received: Pusey & Jones, Wilmington, Del., $192,500 on "Tulip;" $170,500 on "Cypress;" alternate bid, omitting electrical apparatus and other details, $188,000 on "Tulip," $160,500 on "Cypress." Moran Co., Seattle, Wash., $186,591 on "Manzanita," delivered at Astoria.

DITCHES. — Alexandria, Minn. — No bids were received on Oct. 29, by E. P. Wright, County Audr., for digging and constructing the main ditch and several branches of County Ditch No. 11. Estimated quantities: Main ditch, length 18,533 ft.; excavation 41,744 cu. yds.; cost per yd., 12½ cts.; greatest cut 10.3 ft.; width at bottom four feet; width at top 12 to 16 ft.; soil gravelly clay; total estimated cost $5,218. Bids were asked for four branches, combined length 11,285 ft.; excavation 12,361 cu. yds.; average cut three and four ft. Bids were received on branches 1, 3 and 4 at 16¼ cts. a cu. yd. Contracts were not let.

PLEASURE PARK.—Albany, N. Y.—The Altro Park Amusement Co., Albany, has purchased the lease of Lagoon Island, a pleasure park on the Hudson River, between Albany and Troy, from the Albany syndicate, headed by William Bookheim, who had recently acquired control of the island. The resort will be called "Altro Island Park," and improvements costing $150,000 will be made. Attractions similar to those at Coney Island resorts will be installed. Work will be begun at once. The United Traction Co. will construct a branch from its Broadway line to the island, a distance of about one mile. William T. Hunter is Pres., and Max Rosen is Mgr. of the Altro Park Co.

CONDUIT, EMBANKMENT.—Boston, Mass.—Bids were received on Oct. 29 by the Charles River Basin Commission, 367 Boylston St., for building Section 4 of the Boston marginal conduit and Section 2 of the Boston embankment, requiring about 145,000 cu. yds. of earth fill, 170,000 lin. ft. of piles, 5,700 cu. yds. of masonry and 900 cu. yds. of stone masonry. Hiram A. Miller, Ch. Engr. The bidders, all of Boston, were: HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St., $198,890 (awarded contract); Hugh Nawn Contracting Co., $200,860; Charles R. Gow Co., $204,590; Metropolitan Contracting Co., $205,595; William L. Miller, $211,201. Itemized prices will be found under Contract Prices in this issue.

FERRY.—Brooklyn, N. Y.—We are officially advised that the Riparian Land & Improvement Co., 189 Montague St., Brooklyn, may soon let contracts for proposed ferry from Flatbush Ave. to Rockaway Beach. Estimated cost, $30,000. "The proposed ferry is for the purpose of having a short route from all points in New York and Brooklyn to Rockaway and the west end of Rockaway Beach. The distance from City Hall, N. Y., to the landing place at Rockaway, is twelve miles, and can be driven by teams and all other travel. The trolleys will land passengers at the waterfront the same as at other seaside places. It is proposed to have a landing to accommodate the new park to be laid out by the city west of Belle Harbor property, as well as several other points which may seem necessary. Flatbush Ave. will have to be extended to the Bay. There are from 2 to 2½ miles of street to be graded across the land, between the foot of Flatbush Ave. and the bay. There will be two bridges needed, and possibly three, following the plan of the one at Broad Channel. These will be built over Deep Creek and Mill Creek, and another one possibly over a creek midway between these that is not used, however, and has only a foot of water at low tide. This can be piled or graded. A road 100 ft. wide is needed to the water-front for trolleys and for vehicles. The waste ashes from the city will grade this in a very short time and furnish an easy dumping ground. This ferry is in line with the proposed improvements awaiting this section, and is bound to come. It will give relief to the greatly overcrowded water-front at Coney Island and will be easy of access, and a quick and cheap route to the sea. It will eliminate the 29-mile drive from Rockaway necessary to get to the city. It is only a 9-mile drive in connection with the ferry to City Hall, N. Y., and, of course, shorter to all Brooklyn points. Doub'e-deck ferry boats, to run as often as the business demands, or all year, are proposed." Engineer has not been appointed yet.

U. S. POSSESSIONS AND CUBA.

The names of parties awarded contracts are printed in capital letters.

DREDGE.—Panama.—Bids were opened Nov. 1, at the office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., for one 5-yd. dipper dredge. Bids were as follows:—Atlantic, Gulf & Pacific Co., Park Row Bldg., New York, $127,000, 285 days; FEATHERSTONE FOUNDRY & MACHINE CO., 348 North Halsted St., Chicago, Ill., $100,000; 240 days (awarded contract). Michael J. Dady, Brooklyn, $100,000 on dredge "Eringo-bragh," now at Cardenas, Cuba, time, 90 days (not on specifications).

SUCTION DREDGES.—Panama.—Bids are asked until 10.30 a. m., Dec. 11, by D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Comn., Washington, D. C., for furnishing, delivering and completing, free of all charges, at either Christobal (Atlantic port) or La Boca (Pacific port) one or two suction dredges. Specifications and bidding sheets are on file at office of Engineering News, New York. Drawings may be obtained upon application to the General Purchasing Officer, Washington, D. C., or the Assistant Purchasing Agents, 24 State St., New York City, and 1086 North Point St., San Francisco, Cal. Such application should be accompanied by a certified check for $5, payable to the order of the Chairman, Isthmian Canal Commission. Checks will be returned to bidders who submit regular bids on or before the hour of public opening.

BOILERS.—Panama.—Bids were opened Nov. 1, at the office of the Isthmian Canal Commission, Washington, D. C., for boilers and accessories, as follows:—Item 2, 24 horizontal return tubular boilers, 84 × 18 ins.; item 3, four sheet steel smoke boxes; item 4, four sheet steel guyed stacks; item 5, two duplex boiler feed pumps; item 6, 18 automatic valves; item 7, 18 pipe bends; item 8, four damper regulators. All items are bid on for delivery at Colon unless specified. Bids were as follows: Edwin Burnham, 21 Wall St., New York, $65,578; time not stated; P. Delany & Co., Newburgh, N. Y., items 2, 3 and 4, $68,900; time 120-130 days; Fox Bros. Co., New York, $60,562; time 60-180 days; A. D. Granger Co., 95 Liberty St., New York, item 2, $54,745; $51,548; $53,985; $49,000; items 3-8, $6,368; New York delivery; item 2, $44,745; $41,548; $43,980; $39,500; items 3-8, $5,690; time, 120-180 days; E. Keeler, Williamsport, Pa., $64,567; time, 90-120 days; Manning, Maxwell & Moore, 85 Liberty St., New York, $57,436; time, 90-210 days; Moran Co., Seattle, Wash., $90,720; Motley, Green & Co., 66 Broad St., New York, items 2, 3 and 4, $58,328; time, 75-175 days; New Jersey Foundry & Machine Co., 9 Murray St., New York, $64,742; time, 110-200 days; Odlum Taylor Boiler Co., Memphis, Tenn., items 2, 3, 4, 7, $59,449; time, 120-150 days; Vermilye & Power, New York, $68,740; time, 30-180 days; Phoenix Iron Works Co., Meadsville, Pa., $66,418; time, 60-90 days; James Reilly Repair & Supply Co., 229 West St., New York, $117,705; time, 60-150 days; Robb-Mumford Boiler Co., 11 Broadway, New York, $56,686; time, 45-120 days; Atlas Engine Works, 111 Broadway, New York, $60,108; time, 60-180 days.

LUMBER.—Panama.—Bids were opened Nov. 1, at the Office of D. W. Ross, Gen. Purchasing Officer, Isthmian Canal Commission, Washington, D. C., on lumber, as follows: (a) 2,900,000 ft., B. M., lumber, s. 4 s., various sizes, long leaf yellow pine, Douglas fir or redwood; (b) 1,000 pieces, stringers, and 2,900 pieces, sways. Bids were as follows:—Acme Lumber Co., 301 Board of Trade Bldg., New Orleans, (b) $23,524; 15-120 days; A. S. Bacon & Sons, 2 Bay St., W., Savannah, Ga., (a) $86,855; (b) $18,833; time, 60-120 days; Chicago Lumber & Coaling Co., Seventh and Pine Sts., St. Louis, (a) $76,122; (b) $20,492, subject to reduction of $1.50 per M. ft., if awarded both classes; 42-118 days; Continental Lumber Co., Binz Bldg., Houston, Tex., (a) $95,800, (b) $21,305; 60-100 days; Deatherage Lumber Co., 16th and Indiana Ave., Kansas City, Mo., (a) $98,600; (b) $25,630; 120-140 days; Dixon Lumber Co., Savannah, Ga., (a) $88,000; (b) $18,864; no time; GAMWELL & WHEELER, 633 Pioneer Bldg., Seattle, Wash., (a) $100,050; (b) $16,926; time, 30-60 days (awarded contract a); Wm. D. Gill & Sons, 701 President St., Baltimore, (a) $88,055; 100-150 days; (b) $20,366, $22,335; 100-150 days; D. L. Gillespie & Co., 541 Wood St., Pittsburg, Pa., (a) $98,600 (pine); $89,900 (fir); (b) $16,070 (pine); $15,497 (fir); 90-120 days; Jetton Dekle Lumber Co., Tampa, Fla., (a) $90,500; 45-200 days; Long Bell Lumber Co., Kansas City, Mo., (a) $79,525; (b) $19,881; 60-90 days; Panama Lumber & Trading Co., 1016 Hibernia Bldg., New Orleans, (a) $86,220; (b) $21,274; 30-105 days; 8 per cent. discount for cash; Robt. R. Sizer & Co., Jacksonville, Fla., (a) $87,225; 90-200 days; ENSIGN LUMBER CO., Jacksonville, Fla., (a) $75,500; (b) $17,750; 45-60 days; alternate: (a) $79,890; (b) $18,925; 40-55 days; Turnbull, Joyce Lumber Co., Chicago, (a) $69,600; (b) $16,008, f. o. b. some Gulf port; (a) $87,000; (b) $18,863, f. o. b. Colon; 30-90 days, (awarded contract b); Southern Saw Mill Co., Hennan Bldg., New Orleans, (a) $86,100; 30-90 days.

CONTRACT PRICES.

(Where (*) precedes items under Contract Prices the work was advertised in Engineering News.)

*CONDUIT, EMBANKMENT. — Boston, Mass.—Bids were received on Oct. 29, by the Charles River Basin Commission, 367 Boylston St., for building Section 4 of the Boston marginal conduit and Section 2 of the Boston embankment. Hiram A. Miller, Ch. Engr. All were local bidders. The bidders and bids in detail were as follows:; (A) HOLBROOK, CABOT & ROLLINS CORPORATION, 6 Beacon St. (awarded contract); (B) Hugh Nawn Contracting Co.; (C) Charles R. Gow Co.; (D) Metropolitan Coutracting Co.; (E) Wm. L. Miller:

BIDS RECEIVED ON OCT. 29 FOR CONDUIT AND EMBANKMENT, BOSTON, MASS.

		(A)	(B)	(C)	(D)	(E)
Earth filling, Class A (ordinary earth)	80,000 cu. yds.	$0.40	$0.40	$0.35	$0.50	$0.40
Earth filling, Class B (clean earth)	25,000 cu. yds.	.53	.60	.50	.57	.53
Earth filling, Class C (sand and gravel)	40,000 cu. yds.	.68	.65	.65	.60	.75
Piles in place (45 ft. or less in length)	170,000 lin. ft.	.17	.19	.23	.23	.16
Piles in place (over 45 ft. in length)	2,000 lin. ft.	.20	.30	.27	.30	.24
Driving piles at an inclination (additional price)	30,000 lin. ft.	.03	.04	.03	.02	.02
Drains	2,500 lin. ft.	.60	.80	.50	.50	.75
Concrete masonry (1:2½:4½ in conduits)	4,200 cu. yds.	12.00	9.25	10.00	9.00	13.50
Concrete masonry (1:2½:4½ in wall)	1,500 cu. yds.	8.00	9.00	10.00	10.00	9.00
Ashlar masonry, except for copings	400 cu. yds.	18.50	25.00	30.00	25.00	17.00
Ashlar masonry for copings	500 cu. yds.	25.00	35.00	35.00	27.00	30.00
Face dressing of pointed work	14,500 sq. ft.	.60	.60	.50	.45	.80
Yellow pine lumber in place in temporary sewer outlets	10 M. ft. B.M.	60.00	60.00	60.00	40.00	60.00
Wrought iron and steel in place in temporary sewer outlets	2,000 lbs.	.05	.07	.05	.06	.06
Iron and other metal work	120 tons	25.00	20.00	15.00	20.00	12.00
Timber attached to masonry	1 M. ft. B.M	40.00	70.00	50.00	50.00	36.00
Totals		$198,890	$200,860	$204,590	$205,595	$211,201

MEXICO.

The names of parties awarded contracts are printed in capital letters.

SEA WALL.—Progreso, Yucatan.—A sea wall will be constructed here. Ernest Black, Engr., is preparing the plans.

OFFICE BUILDING.—Las Esperanzas.—The Mexican Coal & Coke Co. will construct large and modern buildings here for its offices to replace the buildings which were recently destroyed by fire.

PUBLIC IMPROVEMENTS.—Merida, Yucatan.—Ernest Black, Engr., is preparing plans for proposed public improvements to be constructed here at a cost of several hundred thousand dollars.

WATER STORAGE DAM.—Chihuahua.—The bids for the construction of the large dam across the Chuviscar River near here to supply the city with water were recently opened by the Junta de Mejoras Materiales of Chihuahua. W. A. Bird, of Chihuahua, was the lowest bidder, his bid being $316,250. He probably will be awarded the contract.

IRRIGATION WORKS.—Casas Grandes, Chihuahua.—The Corralitas Land & Cattle Co. of Casas Grandes, E. C. Houghton, Gen. Mgr., has obtained a concession from the Mexican government for the construction of irrigation works upon its land here at a cost of more than $1,000,000. Dams will be constructed across the Rio de Jano and the Rio San Pedro to form reservoirs for the water supply.

RAILROAD.—Durango.—The Department of Communications and Public Works has granted to Ricardo Crombe a concession for the construction of a railroad, either broad or narrow gage, between Tepehuanes, Durango, and Culican, Sinaloa. The road must be finished within ten years. The concession permits the company which Mr. Crombe may organize to charge four cents per kilometer for first-class passengers, three cents for second-class and two cents for third-class.

IRRIGATION WORKS.—Durango.—A large dam and irrigation works are to be constructed upon the Guatimape hacienda, in this state, by Juan Lozaya.

REDUCTION PLANT.—Aguatos, Chihuahua.—The Compania Minera de Rio de Plata will install a complete reduction plant at its mines, 70 miles from Aguatos. It will consist of a 25-stamp mill, tube mill for regrinding, concentrators, classifiers for ore, 60-ton cyanide plant and rock crusher with belt conveyor 150 feet long to convey the ore to the bins. A large warehouse has been built here and a trail built through the mountains by the company in order to transport the machinery to the mines. Many improvements are being made at the mines, including the erection of a saw mill, the construction of a tunnel 190 feet long for the intake of the water for power, the grading for the flue, 4750 feet long, the grading for the 1500 foot rail tramway and the erection of a retaining wall along the river 600 feet long and from four to ten feet high. D. W. Shanks is General Mgr. and H. W. Edwards is Supt.

CIVIL SERVICE EXAMINATIONS

AIDS.—Washington, D. C.—The U. S. Civil Service Commission announces an examination on Dec. 5-6, to secure eligibles from which to make certification to fill at least four existing vacancies and vacancies as they may occur in the position of Aid in the Coast and Geodetic Survey, at $720 per year. As the Commission has experienced considerable difficulty in securing a sufficient number of eligibles for this position to meet the needs of the service, qualified persons are urged to enter this examination. Age limit 18 to 25 years. Application Form No. 1312.

Vacancies in the position of desk officer as they may occur will also be filled as the result of this examination.

TOPOGRAPHICAL DRAFTSMAN. — New York, N. Y.—Announcement is made by the Municipal Civil Service Commission, 299 Broadway, that an examination will be held on Dec. 12 for the position of Topographical Draftsman. Applications will be received until Dec. 3, 4 p. m. Under "Technical Knowledge," candidates will be examined practically as to their ability to draw, letter, etc., and will be required to furnish their own drawing materials. The salary is $1,200 per year and over. Vacancies in all departments will be filled from this list. The minimum age is 21 years. Frank A. Spencer, Secy. (Advertised, Engineering News, Nov. 8-15.)

TRADE PUBLICATIONS.

BLAST FURNACES. — The Risdon Iron Works, San Francisco, Cal. Two bulletins. Paper; 7 × 10 ins.; illustrated.

Bulletin No. 19-1 briefly describes silver-lead blast furnaces, while bulletin No. 19-2 describes briefly, copper blast furnaces.

RADIAL REAMER.—Hanna Engineering Works, 820 Elston Ave., Chicago, Ill. Paper; 8 × 11 ins.; two-page circular; illustrated.

The "Hanna" radial reamer is very briefly described. This is a 6-ft. portable machine driven by a 7½-HP. electric motor.

BLACKSMITHS' TOOLS.—Buffalo Forge Co., Buffalo, N. Y. Two circulars. Illustrated.

Very brief descriptions of hand blowers, forges, punches, shears and drills are given. Size of work the different tools will handle are given, together with price of tools.

CORLISS ENGINES.—Wisconsin Engine Co., Corliss, Wis. Catalogue E-3. Paper; 10¼ × 6¾ ins.; pp. 58; illustrated.

This catalogue is largely devoted to illustrations showing the different engines manufactured by this company. Tables and line cuts give the size and principal dimensions of these engines.

PNEUMATIC HAMMERS. — The Dayton Pneumatic Tool Co., Dayton, Ohio. One circular. Illustrated.

A very brief description of the "Green" hammer is given, while a table shows the kind of work each size of hammer is adapted for, its weight, blows per minute, cubic feet of air consumed per minute, etc.

CHAIN.—Newhall Chain Forge & Iron Co., 9-15 Murray St., New York City. Catalogue No. 101. Paper; 6 × 9 ins.; pp. 12; illustrated.

This circular is devoted to describing hand-forged crane, block and hoisting chain, known as the "Warwick" and "Trident" brands, also drop forged hooks.

LADLES.—Whiting Foundry Equipment Co., Harvey, Ill. Catalogue No. 47. Paper; 6 × 9 ins.; pp. 16; illustrated.

The catalogue supersedes No. 34, and describes all kinds of ladles, including crane, shank and hand, truck, reservoir, bottom, tap and car wheel ladles. They are made in all sizes.

CONCRETE BLOCK MACHINES.—The Perfection Block Machine Co., Minneapolis, Minn. Paper; 6 × 9 ins.; pp. 18; illustrated.

The "Perfection" power block machines for making hollow concrete building blocks are illustrated and described in this bulletin. In these machines the concrete is measured, mixed, and subjected to a pressure of over 100 tons. From 60 to 100 blocks per hour can be made with one of these machines by five to eight men.

ELECTRIC PANEL BOARDS.—H. Krantz Mfg. Co., Brooklyn, N. Y. Paper; 8½ × 11 ins.; pp. 16; illustrated.

Panel boards for architects and engineers are given attention in this bulletin. The standard models are illustrated, and a list is given of the most prominent buildings in which Krantz panels are used.

BOILER STACKS.—Weber Steel-Concrete Chimney Co., 929-934 Marquette Bldg., Chicago, Ill. Paper; 4 × 9 ins.; pp. 48; illustrated.

A general description of the Weber reinforced concrete chimney is given, but the greater part of the catalogue is devoted to illustrations showing stacks built under this company's patents.

ELECTRIC BRAKES. — Whiting Foundry Equipment Co., Harvey, Ill. Catalogue No. 48. Paper; 6 × 9 ins.; pp. 8; illustrated.

Direct current solenoid brakes are described in this circular. These brakes are made in four sizes, having a rating of from 2 to 60-HP. Line cuts and table give their principal dimensions.

ENGINES.—Dake Engine Co., Grand Haven, Mich. Bulletin No. 16. Paper; 6 × 9 ins.; pp. 16; illustrated. 3 Circulars. Paper; 6 × 9 ins.; pp. 4; illustrated.

Air and steam motors, pneumatic chain hoists, derrick crabs, swinging gears, and hoisting engines are illustrated and described in the bulletin. Hoisting engines, steam steering gear, and steam feed are presented respectively in the three circulars.

STEEL SHEET PILING.—United States Steel Piling Co., Chicago, Ill. Paper; 5½ × 8½ ins.; pp. 24; illustrated.

This is an interlocking steel sheet piling, all sections being interchangeable. It is adaptable for either circular or straight work, and can be used over and over again. The catalogue gives full description of the piling and shows many illustrations of the piling in use.

MILLING MACHINES.—The Cincinnati Milling Machine Co., Cincinnati, Ohio. Paper; 6 × 9¼ ins.; pp. 64; illustrated.

Sixty examples of rapid milling taken from actual practice are given in this publication by means of illustrations and data. Among the new matter embodied in this edition is that relating to direct-connected motor-driven machines.

TELEPHONE CONSTRUCTION. — Illinois Telephone Construction Co., Chicago, Ill. Paper; 10 × 6½ ins.; pp. 111; illustrated.

This publication comprises a collection of views and maps of the Chicago tunnel system built for the Illinois Tunnel Co. by the Illinois Telephone Construction Co. The statement is made therein that the system was built without accident and there were no claims for damages.

CABLEWAYS.—The Carson Trench Machine Co., Charlestown, Boston, Mass. Catalogue C. Paper; 9 × 6 ins.; pp. 60; illustrated.

After describing the Carson-Lidgerwood cableway, the catalogue takes up its advantages. Much space is devoted to testimonials and illustrations of the cableway in use. A table gives capacity, etc., of the regular sizes of cableways.

WINDMILLS.—U. S. Wind Engine & Pump Co., Batavia, Ill. Paper; 6 × 9 ins.; pp. 19; illustrated.

Pumping windmills are here illustrated and described. The designs shown comprise both the vane and vaneless types, and the steel and wooden construction of the towers and wheels. In the steel windmills all sheets, bars, angles, and channels are galvanized before they are put together.

HEATING MACHINES.—Rockwell Engineering Co., 26 Cortlandt St., New York. Paper; 6 × 9 ins.; pp. 8; illustrated.

Rockwell heating machines for annealing, hardening, tempering and coloring, form the subject of this publication. The furnace can be operated with either oil or gas. The driving power required is about ½-HP. The capacity of these machines for annealing averages from 400 to 600 lbs. of metal per hour.

LUBRICANTS.—Joseph Dixon Crucible Co., Jersey City, N. J. Paper; 6 × 9½ ins.; pp. 83; illustrated.

"Graphite as a Lubricant" is the title of this booklet. The subject of lubrication in general, and graphite lubrication in particular, is exhaustively treated. This being the tenth edition of this publication, it contains all the good features of the previous editions and the latest information regarding the subject, making it valuable to the student of theory and the man of practice.

RAILWAY SUPPLIES. — General Electric Co., Schnectady, N. Y. Publication No. 7601. Board; 6 × 10¾ ins.; pp. 233; illustrated.

Supplies required in the construction and operation of complete electric railway systems are given attention in this catalogue. The various classes of material are arranged to facilitate the selection of repair parts most often required, and descriptive matter is given so the customer can readily determine the exact material necessary for his particular needs.

PAVING BRICK AND BLOCKS.—Mack Mfg. Co., Philadelphia, Pa. Paper; 9¼ × 6¼ ins.; pp. 61; illustrated.

Vitrified paving brick and blocks are exhaustively treated in this publication. Numerous views of cities where "Mack" paving brick are used show how extensively this kind of street covering is employed. There are also a number of illustrations of the plants at New Cumberland, W. Va., where these brick are made. The properties and advantages of vitrified paving brick and block are described in a very effective and attractive way.

PUMPING MACHINERY.—Weinman Machine Works, Columbus, Ohio. General Catalogue No. 10. Paper; 6 × 7 ins.; pp. 64; illustrated.

Steam-driven pumps, gas-driven pumps, and electric-driven pumps of both vertical and horizontal types are illustrated and described in this catalogue. Tables and general information are given, so that a pump for ordinary requirements can easily be selected.

PUMPS.—Union Steam Pump Co., Battle Creek, Mich. Paper; 4 × 5 ins.; pp. 48; illustrated.

Mine pumps, sinking pumps, boiler-feed pumps, tank pumps, air pumps and jet condensers, and marine pumps are illustrated in this publication. A brief discussion of the merits of Burnham pumps accompanies the illustrations. One of the principal claims made is that these pumps will not short-stroke.

TANKS AND PIPES.—Tallerday Mfg. Co., Los Angeles, Cal. Catalogue No. 14. Paper; 6¾ × 10 ins.; pp. 55; illustrated.

Riveted steel water pipe, surface irrigation pipe, galvanized steel tanks, steel cyanide tanks, smoke stacks, and the general sheet metal work made by this company, are given attention. Considerable useful information regarding the installation of tanks and pipes also accompany the illustrations and descriptions.

LOCOMOTIVES.—Baldwin Locomotive Works, Philadelphia, Pa. Paper; 9 × 6 ins.; pp. 32; illustrated.

This publication gives a record of recent locomotive construction. The pages contain information pertaining to a great variety of locomotives of different gages and for different kinds of service representing current requirements. The information is presented without special arrangement and mainly in the order of construction.

GENERAL ENGINEERING WORK.—The Wellman-Seaver-Morgan Co., Cleveland, Ohio. Catalogue Section "A." 9 × 12 ins.; pp. 12; illustrated.

Illustrated descriptive matter relating to the mechanical, civil, electrical, mining, and hydraulic work handled by these consulting and contracting engineers forms the basis of this publication. Their practice embraces the working out of new and special engineering problems, and the furnishing of preliminary plans, reports and estimates for contemplated work, all of which they are prepared to handle in detail.

BLUE PRINTING MACHINES.—Buckeye Engine Co., Salem, Ohio. Paper; 4 × 9¼ ins.; pp. 15; illustrated.

This booklet illustrates and describes the "Buckeye" electric blue-printing machine, a device for making blue prints by electric light at any time during the day or night regardless of weather conditions. In this machine one enclosed arc lamp is used. The time of exposure varies from 1½ min. for clean tracings to 2 or 3 min. for very old or soiled ones. The machine requires but one attendant, and its cost of operation is based upon the cost of the current and carbons used in the lamp. Each set of carbons will burn about 100 hrs., and the cost per set is about 5 cts.

DRILLS.—Sullivan Machinery Co., Chicago, Ill. Bulletin 51D. Paper; 6 × 9 ins.; pp. 11; illustrated.

Pneumatic hammer drills for quarrying and contracting work are treated of in this bulletin. The bit used in this drill remains against the rock and is forced into it by rapid blows of an independent piston. But one man is required to operate it. He controls the air or steam supply by pressure of the handle, and rotates the bit with a hand wrench. These drills are made in three styles; one is air-driven for holes from 3 to 12 ins. in depth, another is air-driven for holes from 1 to 4 ft. in depth, and the third is steam-driven for holes from 1 to 4 ft. in depth.

BOILERS.—A. D. Granger Co., 95 Liberty St., New York., N. Y. Bulletin No. 2. Paper; 9 × 6 ins.; pp. 27; illustrated.

Water-tube boilers for power, steam heating and hot-water heating are discussed in this booklet. The boiler consists of an inner and outer shell, forming a water jacket which completely surrounds the fire. The water jacket receives and absorbs the radiated heat, and it is claimed that for this reason the boiler occupies about one-third the floor space of, and has less height than, any brick set boiler. Numerous illustrations are given of buildings equipped with the boilers described.

For other Proposal Advertisements see pages 51, 52, 53, 54, of Advertisements and Construction News page 166.

BRICK PAVING.

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